



SIEMENS

Building Technologies

Intrusion
Products & Accessories
Catalogue 2004

Fire & Security Products from Siemens Building Technologies Ltd.

Fire & Security Products is one of the leading manufacturers and supplier of security and fire equipment in Europe. Formerly known as Alarmcom, Fire & Security Products is a division of Siemens Building Technologies.

By ensuring that both our products and our services match or exceed the requirements of today's markets Fire & Security Products can be relied upon to support its customers, regardless of the security or fire protection application.

Our team of experienced sales, product and technical specialists are available to assist customers in project development, equipment specification and system integration. As part of a worldwide operation with offices in over 16 countries Fire & Security Products is able to offer multinational technology solutions and support to even the largest corporate organisation.

Our aim is to build long term sustainable relationships with our customers by responding to their ever-changing needs and provide the right technological solutions for security, fire, CCTV and access control.

Fire and Security Products believes it is ideally placed as a partner for the future, with the integrated approach we have developed. This enables our customers to specify with confidence a 'Total Solution' package from one supplier, Fire & Security Products. Our aim will always be to provide a product offering to enable our customers to provide a leading edge technological solution at a competitive price. To achieve this we offer a comprehensive range of Siemens products and class leading complimentary products from local supporting manufacturers.

The future is here today with Fire & Security Products from Siemens Building Technologies Ltd.. We hope you will join us.

Yours truly

A. Meili

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MATCHTEC™

- Exclusive MATCHTEC signal processing and system interconnection feature guarantees exceptional reliable detection
- Only unambiguous and verified motion signal from both subsystems are evaluation
- Maximum flexibility when positioning the detector
- Maximum immunity against environmental influences

VISATEC II™

- Evolution of field-proven VISATEC
- Multi-criteria signal analysis ensures superior false alarm immunity
- Intelligent pattern matching optimises detection performance
- Application settings allow precise matching to site requirements
- Multiple event analysis for harsh environments

SINTONY

- One control panel family from “small” to “big”
- Modular structure of all control panels
- Minimal cost redundancy
- Reduced stock due to “family” compatible components
- Reduces installation costs due to BUS technologie
- BUS expansion
- Reduced training costs for technicians and installers
- Remote service via SYLCOM-Software
- Shop-in-Shop (Multiple partition solutions)
- Reduced false alarm rate due alarm verification

SWISSTEC

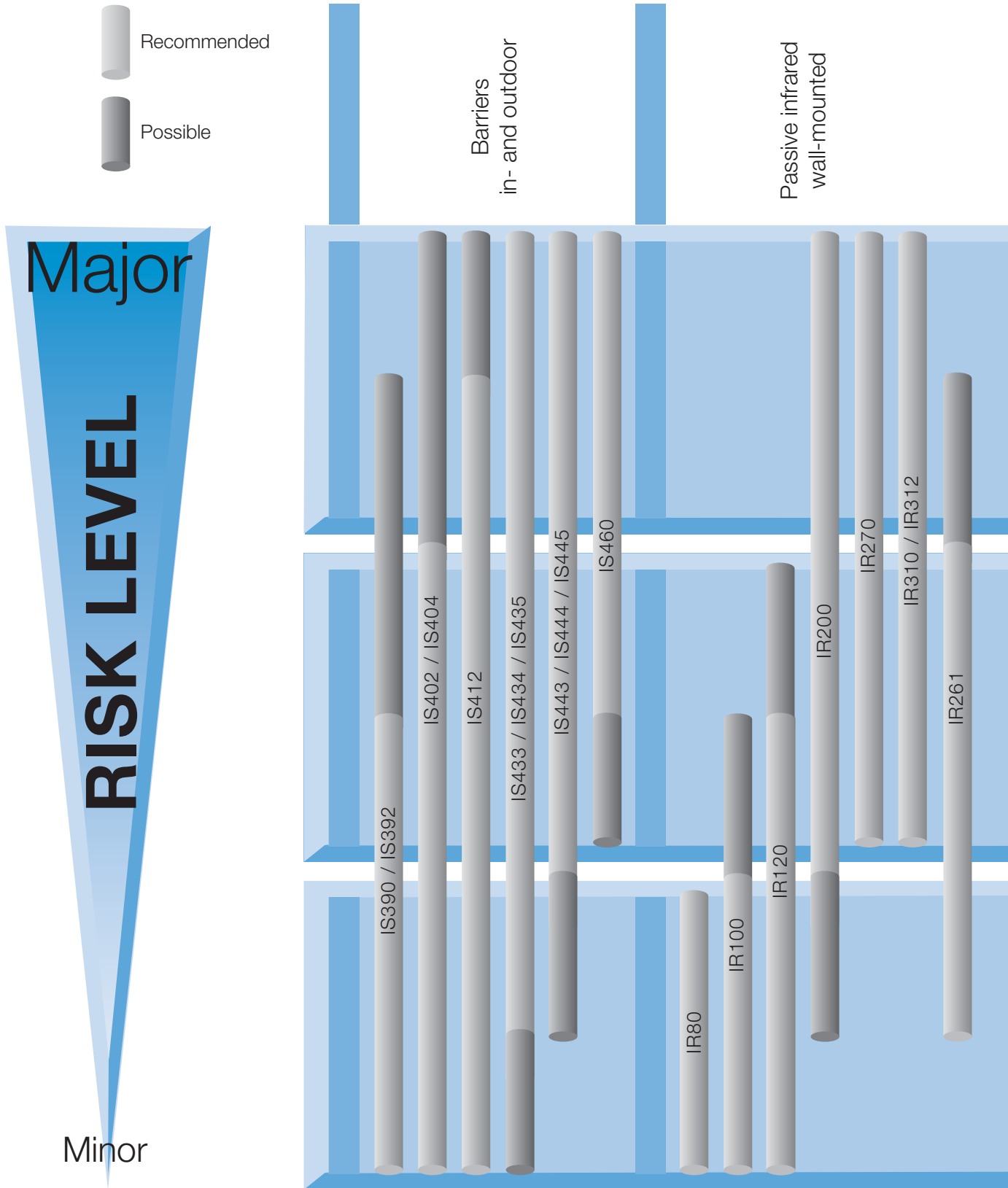
- AMASIC digital signal analysis
- Multi-criteria signal analysis
- Triplex mirror technologies
- Designed for residential application with outstanding pet immunity
- Application settings for easy setup

SENSTEC™

- New bimorph Senstec sensor technology
- Universal application, including Light-Weight-Safes
- Special seismic ASIC with digital signal processing
- Improved installation friendliness
- Input terminal for interactive sensitivity reduction
- Additional temperature surveillance
- Special cable conduit entrance available

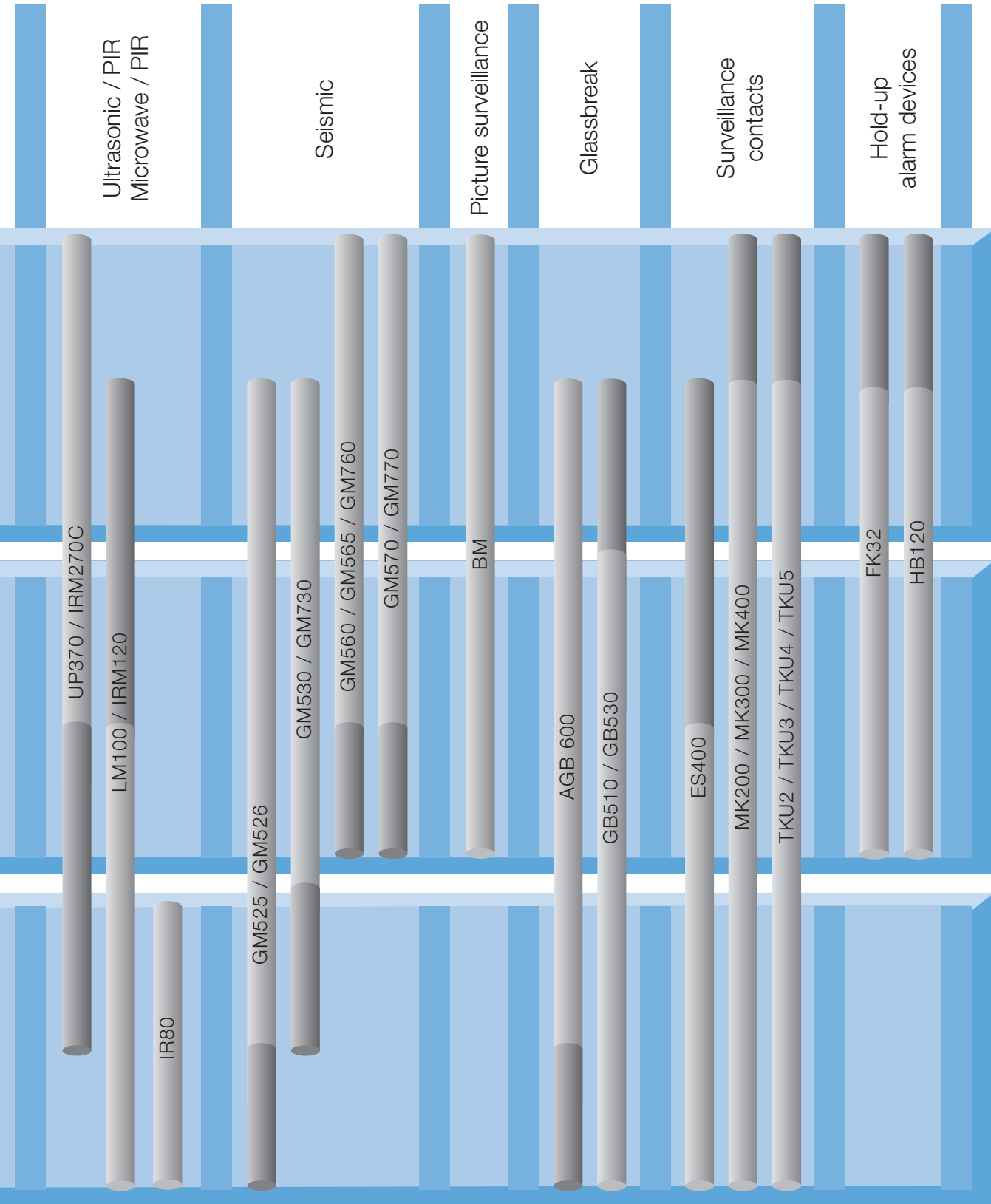


security risk level overview





security risk level overview



product overview







Application

Lens and coverage


Pet immunity

Antimask





PIR motion detectors

IR80		<ul style="list-style-type: none"> Residential 	<ul style="list-style-type: none"> Fresnel lens 12 m volume 20 m curtain 	<ul style="list-style-type: none"> Up to 12 kg 	<ul style="list-style-type: none"> No
IR100		<ul style="list-style-type: none"> Residential Commercial 	<ul style="list-style-type: none"> Triplex mirror 12 m volume 20 m curtain 	<ul style="list-style-type: none"> Up to 20 kg 	<ul style="list-style-type: none"> No
IR120		<ul style="list-style-type: none"> Residential Small commercial 	<ul style="list-style-type: none"> Black triplex mirror 12 m volume 20 m curtain 	<ul style="list-style-type: none"> Up to 40 kg 	<ul style="list-style-type: none"> No
IR200		<ul style="list-style-type: none"> Commercial Industrial 	<ul style="list-style-type: none"> Black triplex mirror 15 m volume 25 m curtain 	<ul style="list-style-type: none"> Up to 12 kg 	<ul style="list-style-type: none"> No
IR270		<ul style="list-style-type: none"> Large private houses Commercial Industrial 	<ul style="list-style-type: none"> Black mirror 18 m volume 30 m curtain 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> Yes
IR31x		<ul style="list-style-type: none"> Large public houses Large industrial buildings 	<ul style="list-style-type: none"> Mirror 18 m volume 50 m curtain 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> No


PIR ceiling mount motion detectors

IR261		<ul style="list-style-type: none"> Open plan offices Shops Corridor crossing Warehouses 	<ul style="list-style-type: none"> Fresnel lens 7.6 m radius 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> No
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PIR / microwave motion detectors

IRM80		<ul style="list-style-type: none"> Office Commercial Industrial 	<ul style="list-style-type: none"> Fresnel lens / Microwave 12 m volume 12 m curtain 	<ul style="list-style-type: none"> Special pet lens 	<ul style="list-style-type: none"> No
LM100		<ul style="list-style-type: none"> Residential 	<ul style="list-style-type: none"> Fresnel lens / Microwave 12 m volume 12 m curtain 	<ul style="list-style-type: none"> UP to 12 kg 	<ul style="list-style-type: none"> No
IRM120		<ul style="list-style-type: none"> Residential Office Commercial 	<ul style="list-style-type: none"> Black mirror / Microwave 12 m volume 12 m curtain 	<ul style="list-style-type: none"> UP to 12 kg 	<ul style="list-style-type: none"> No
IRM270		<ul style="list-style-type: none"> Commercial Industrial High-security 	<ul style="list-style-type: none"> Fresnel lens / Microwave 12 m volume 12 m curtain 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> No

PIR / ultrasound motion detectors

UP370		<ul style="list-style-type: none"> Commercial Industrial High-security 	<ul style="list-style-type: none"> Black mirror / Ultrasound 10 m volume 	<ul style="list-style-type: none"> No 	<ul style="list-style-type: none"> Yes
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Siemens**PIR motion detectors****IR80B****Easytec PIR detector 12 m wide angle**

A single PIR detector with fresnel lens and pet immunity up to 12 kg. The IR80 provides an excellent price/performance ratio. The detector for residential installation features as well: safe and easy snap-in installation, state-of-the-art design, special fresnel lens, sealed sensor chamber and temperature compensation.

Range	12 m wide angle
Supply voltage (typical)	9 ~ 16 Vdc
Current consumption	<16 mA
Walk-test indicator	LED
Sensitivity adjustment	2 levels
Operating temperature	-20 ~ +55 °C
Housing protection (IEC529)	IP41
Dimensions (W x H x D)	51 x 87 x 45 mm
Weight	0.070 kg

A5Q00002067 003257**IR80UL****Easytec PIR detector 12 m wide angle**

Same technical details as IR80B but for the UL-market.

A5Q00001768 003257**IRUM2****Wall mount bracket**

For IR80, IR200, LM100, UP370

With the IRUM2 the detector can be swivelled into special positions for wall mounting applications.

Angle range adjustment:

- vertical	+10 ~ -15°
- horizontal	+45 ~ -45°

Weight 0.100 kg

5198760001**IRUM3****Ceiling mount bracket**

For IR80, IR200, LM100, UP370

With the IRUM3 the detector can be swivelled into special positions for ceiling mounting applications.

Angle range:

- vertical	+10 ~ -15°
- horizontal	+45 ~ -45°

Weight 0.160 kg

5198890001

IR100B**Swisstec PIR detector 12 m wide angle**

A unique combination of superior immunity and high detection reliability based on innovative technologies. The 18x3 triplex zone mirror and BASIC full digital signal processing, make this detector ideal for use in a wide range of commercial and domestic applications where domestic pets may be present. Pet immunity up to 20 kg.

Range	12 m wide angle
Supply voltage (typical)	9 ~ 16 V _{DC}
Current consumption	9 mA (9 mA on alarm)
Alarm output relay contact	30 V _{DC} / 100 mA / Ri 33 Ω
Tamper output contact rating	opens on alarm, 30 V _{DC} / 50 mA
Walk-test indicator	LED
Sensitivity adjustment	2 levels
Walking speed	0.2 ~ 3 m/s
Operating temperature	-20 ~ +55 °C
Housing protection (IEC529)	IP41
Dimensions (W x H x D)	50 x 115 x 41 mm
Weight	0.080 kg

A5Q00002206 007443**IRS112****Curtain mirror set for IR100, 20 m curtain**

The IRS112 curtain mirror has overlapping coverage zones to form a complete monitored area to detect persons passing through.

Packing unit	4 pieces per package
Weight	0.050 kg

5622920001**IRMC104****Pet clip**

Suitable for IR100 and IR120

Mirror clip for outstanding pet immunity.

- max. pet weight for IR100	up to 20 kg
- max. pet weight for IR120	up to 40 kg
Weight	0.005 kg

5623150001**IRUM20****Wall mount bracket**

Suitable for IR100, IR120, IR270

With the IRUM20, the detectors can be swivelled into special positions for wall mounting applications.

Angle range adjustment:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °
Weight	0.044 kg

5622470001**IRUM30****Ceiling mount bracket**




Suitable for IR100, IR120, IR270

With the IRUM30, the detectors can be swivelled into special positions for ceiling mounting applications.

Angle range:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °
Weight	0.072 kg

5622500001

Type	Description / Technical data	Order No.	Datasheet No.																										
IR120C	<p>Swisstec PIR detector 12 m wide angle, black mirror optics</p> <p>A unique combination of superior immunity and high detection reliability based on innovative technologies. Easy installation with the time-saving snap-in concept. The 18x3 triplex zone black mirror and the AMASIC full digital signal processing make this detector ideal for use in a wide range of commercial and domestic applications where pets may be present. Pet immunity up to 40 kg.</p> <table> <tr> <td>Range</td> <td>12 m wide angle</td> </tr> <tr> <td>Supply voltage (typical)</td> <td>8 ~ 16 Vdc</td> </tr> <tr> <td>Current consumption</td> <td>6 mA (6 mA on alarm)</td> </tr> <tr> <td>Alarm output contact rating</td> <td>opens on alarm, 30 Vdc, 100 mA</td> </tr> <tr> <td>Tamper output contact rating</td> <td>opens on alarm, 30 Vdc, 50 mA</td> </tr> <tr> <td>Walk-test indicator</td> <td>LED</td> </tr> <tr> <td>Walk-test input</td> <td>LOW ≤ 1.5 V / HIGH ≥ 3.5 V</td> </tr> <tr> <td>Sensitivity adjustment</td> <td>4 levels</td> </tr> <tr> <td>Walking speed</td> <td>0.2 ~ 3 m/s</td> </tr> <tr> <td>Operating temperature</td> <td>-20 ~ +55 °C</td> </tr> <tr> <td>Housing protection (IEC529)</td> <td>IP41</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>50 x 115 x 41 mm</td> </tr> <tr> <td>Weight</td> <td>0.090 kg</td> </tr> </table>	Range	12 m wide angle	Supply voltage (typical)	8 ~ 16 Vdc	Current consumption	6 mA (6 mA on alarm)	Alarm output contact rating	opens on alarm, 30 Vdc, 100 mA	Tamper output contact rating	opens on alarm, 30 Vdc, 50 mA	Walk-test indicator	LED	Walk-test input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V	Sensitivity adjustment	4 levels	Walking speed	0.2 ~ 3 m/s	Operating temperature	-20 ~ +55 °C	Housing protection (IEC529)	IP41	Dimensions (W x H x D)	50 x 115 x 41 mm	Weight	0.090 kg	5403790001	007802
Range	12 m wide angle																												
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Housing protection (IEC529)	IP41																												
Dimensions (W x H x D)	50 x 115 x 41 mm																												
Weight	0.090 kg																												
																													
IR120MD	<p>Swisstec PIR detector 12 m wide angle, black mirror optics</p> <p>Same technical details as IR120C but with following extra features</p> <table> <tr> <td>Unset/set input</td> <td>LOW ≤ 1.5 V / HIGH ≥ 3.5 V</td> </tr> </table>	Unset/set input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V	5402980001	007803																								
Unset/set input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V																												
IR120S	<p>Swisstec PIR detector 12 m wide angle, black mirror optics</p> <p>Same technical details as IR120C but with increased sensitivity, optimised for markets with warm ambient conditions.</p>	A5Q00001761																											
IR120UL	<p>Swisstec PIR detector 12 m wide angle, black mirror optics</p> <p>Same technical details as IR120C but for the UL-market.</p>	A5Q00003264																											
IR120LSN	<p>Swisstec PIR detector 12 m wide angle, black mirror wit LSN</p> <p>Same technical details as IR120C but suited for connection on LSN gateway SAG61.</p>	5628940001																											
IRS122	<p>Curtain mirror set for IR120, 20 m curtain</p> <p>The IRS122 black curtain mirror has overlapping coverage zones to form a complete monitored area to detect persons passing through.</p> <table> <tr> <td>Packing unit</td> <td>4 pieces per package</td> </tr> <tr> <td>Weight</td> <td>0.050 kg</td> </tr> </table>	Packing unit	4 pieces per package	Weight	0.050 kg	5623020001																							
Packing unit	4 pieces per package																												
Weight	0.050 kg																												
																													
IRMC104	<p>Pet clip</p> <p>Suitable for IR100, IR120</p> <p>Mirror clip for outstanding pet immunity.</p> <table> <tr> <td>– max. pet weight for IR100</td> <td>up to 20 kg</td> </tr> <tr> <td>– max. pet weight for IR120</td> <td>up to 40 kg</td> </tr> <tr> <td>Weight</td> <td>0.005 kg</td> </tr> </table>	– max. pet weight for IR100	up to 20 kg	– max. pet weight for IR120	up to 40 kg	Weight	0.005 kg	5623150001																					
– max. pet weight for IR100	up to 20 kg																												
– max. pet weight for IR120	up to 40 kg																												
Weight	0.005 kg																												
																													
IRUM20	<p>Wall mount bracket</p>	5622470001																											

IRUM30**Ceiling mount bracket**

Suitable for IR100, IR120, IR270

With the IRUM30, the detectors can be swivelled into special positions for ceiling mounting applications.

Angle range:

- vertical +10 ~ -15 °
- horizontal +45 ~ -45 °

Weight 0.072 kg

5622500001**IR200C-II****Professional Visatec II PIR detector, 15 m wide angle**

An attractive design, timesaving installation, reliable detection and outstanding immunity make the IR200C-II the ideal motion detector for industrial and commercial applications, as well as for more demanding and sophisticated applications in the private sector.

Supply voltage (typical) 8 ~ 16 V_{DC}

Current consumption 5 mA (6 mA on alarm)

Alarm output contact / load 30 V_{DC} / 100 mA opening on alarm

Tamper contact / load 30 V_{DC} / 100 mA

Optical System black mirror 15 m /18 zones

Walk-test indicator LED

Walktest input LOW ≤ 1.5 V / HIGH ≥ 3.5 V

Sensitivity evaluation mode 4 settings

Walking speed 0.2 ~ 3 m/s (wide angle)

Operating temperature -20 ~ +55°C

Housing protection IP41

Dimensions (W x H x D) 55 x 135.5 x 45 mm

Weight 0.144 kg

Current consumption 5 mA (6 mA on alarm)

5193840001**007531****IR200CD****Professional Visatec II PIR detector, 15 m wide angle**

Same technical details as IR200C but VdS approved.

5193710001**007778****IR200ME****Professional Visatec II PIR detector, 15 m wide angle**

Same technical details as IR200C but with following extra features:

Selection between electronic alarm output or set/unset memory input

Set/unset input LOW ≤ 1.5 V / HIGH ≥ 3.5 V

Electronic output during alarm => 0 V (open collector)

5193680001**007778****IR200LSN****Professional Visatec II PIR detector, 15 m wide angle**

Same technical details as IR200ME but suited for connection on LSN gateway SAG61 (for Sintony 400 only).

5499560001**IRS162****Curtain mirror set for IR200, 25 m curtain**

The IRS162 black curtain mirror has overlapping coverage zones to form a complete monitored area to detect persons passing through.

Packing unit 4 pieces per package

Weight 0.055 kg







4893750001**IRS164****Pet alley mirror set for IR200, 10 m wide angle**

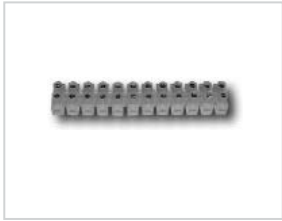




The IRS164 pet alley mirror is mounted at approx. 1 m height to leave a detection alley for animals underneath.


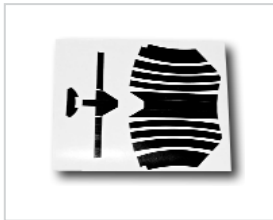
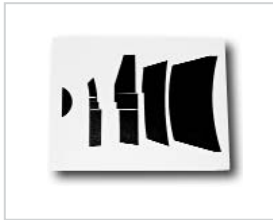
Packing unit 4 pieces per package

Weight 0.040 kg

5032060001

Type	Description / Technical data	Order No.	Datasheet No.
IRMC1	<p>Short-range masking clip, 6 x 6 m wide angle</p> <p>Suitable for IR200, UP370 The IRMC1 reduces the coverage area to 6 x 6 m and is recommended to be used in rooms smaller than that size. together with the wide angle mirror.</p> <p>Packing unit 10 pieces per package Weight 0.125 kg</p>	5209170001	
IRMF20	<p>Masking foil</p> <p>Suitable for IR200, UP370 The IRMF20 allows to mask individual mirror segments in special applications.</p> <p>Packing unit 10 pieces per package Weight 0.075 kg</p>	5209200001	
IRUM1	<p>General-purpose mounting bracket for IR200</p> <p>Special mounting bracket for all wall and ceiling mounting applications with a wide angle alignment range.</p> <p>Vertical angle adjustment +10 ~ -15° Horizontal angle adjustment +90 ~ -90° Weight 0.120 kg</p>	4573100001	
IRUM2	<p>Wall mount bracket</p> <p>Suitable for IR80, IR200, LM100, UP370 With the IRUM2 the detector can be swivelled into special positions for wall mounting applications.</p> <p>Angle range adjustment: – vertical +10 ~ -15° – horizontal +45 ~ -45° Weight 0.100 kg</p>	5198760001	
IRUM3	<p>Ceiling mount bracket</p> <p>Suitable for IR80, IR200, LM100, UP370 With the IRUM3 the detector can be swivelled into special positions for ceiling mounting applications.</p> <p>Angle range: – vertical +10 ~ -15° – horizontal +45 ~ -45° Weight 0.160 kg</p>	5198890001	
IRAK3	<p>Back tamper contact</p> <p>Suitable for IR200, IR270, IR310, LM100, UP370 The IRAK3 back tamper can be fitted in the base of the detector for additional surveillance against vandalism of pulling the detector of the wall.</p> <p>Weight 0.007 kg</p>	4648530001	

Type	Description / Technical data	Order No.	Datasheet No.
IRKL3	<p>Auxiliary terminal</p> <p>Suitable for IR200, IR270, IR310, UP370, GM560, GM570 For additional terminal need, the IRKL3 can be easy mounted in the base of the detector.</p> <p>Packing unit 1 x 12 piece per package Weight 0.020 kg</p>	4457880001	
IR270C	<p>Visatec II PIR detector, 18 m wide angle</p> <p>A unique combination of immunity to false alarms and maximum detection reliability make the IR270C ideal suited to use in a wide range of applications, including commercial and industrial premises, large private houses and public buildings.</p> <p>Supply voltage (typical) 8 ~ 16 V_{DC} Current consumption 2.8 mA (<12 mA on alarm) Alarm output contact / load 30 V_{DC} / 100 mA opening on alarm Tamper contact / load 30 V_{DC} / 100 mA Optical System black triplex mirror 18 m Walk-test indicator LED Walktest input LOW ≤ 1.5 V / HIGH ≥ 3.5 V Sensitivity evaluation mode 4 settings Walking speed 0.1 ~ 4 m/s (wide angle) Operating temperature -20 ~ +55°C Housing protection IP41 Dimensions (W x H x D) 55 x 135.5 x 50 mm Weight 0.170 kg</p>	5714870001	007752 
IR270MD	<p>Visatec II PIR detector, 18 m wide angle with memory</p> <p>Same technical details as IR270C but VdS approved.</p>	A5Q00001864	006895
IIRS272	<p>Curtain mirror set for IR270, 30 m curtain</p> <p>The IIRS272 black curtain mirror has overlapping coverage zones to form a complete monitored area to detect persons passing through.</p> <p>Packing unit 4 pieces per package Weight 0.020 kg</p>	5717330001	
IRUM20	<p>Wall mount bracket</p> <p>Suitable for IR100, IR120, IR270 With the IRUM20, the detectors can be swivelled into special positions for wall mounting applications.</p> <p>Angle range adjustment: - vertical +10 ~ -15 ° - horizontal +45 ~ -45 ° Weight 0.044 kg</p>	5622470001	
IRUM30	<p>Ceiling mount bracket</p> <p>Suitable for IR100, IR120, IR270 With the IRUM30, the detectors can be swivelled into special positions for ceiling mounting applications.</p> <p>Angle range: - vertical +10 ~ -15 ° - horizontal +45 ~ -45 ° Weight 0.072 kg</p>	5622500001	

Type	Description / Technical data	Order No.	Datasheet No.																								
IR310C	<p>Visatec PIR detector, 18 m wide angle</p> <p>An attractive design, timesaving installation, reliable detection and close range detection makes the IR310C the ideal detector for industrial, public and commercial applications.</p> <table> <tr> <td>Range</td> <td>18 m</td> </tr> <tr> <td>Supply voltage (typical)</td> <td>10 ~ 16 V_{DC}</td> </tr> <tr> <td>Current consumption</td> <td>12 mA (29 mA on alarm)</td> </tr> <tr> <td>Alarm output contact</td> <td>30 V_{DC} / 75 mA opening on alarm</td> </tr> <tr> <td>Tamper contact</td> <td>30 V_{DC} / 50 mA</td> </tr> <tr> <td>Walk-test indicator</td> <td>LED</td> </tr> <tr> <td>Walk test input</td> <td>LOW ≤ 1.5 V / HIGH ≥ 3.5 V</td> </tr> <tr> <td>Sensitivity evaluation mode</td> <td>standard / high</td> </tr> <tr> <td>Operating temperature</td> <td>-20 ~ +55°C</td> </tr> <tr> <td>Housing protection (IEC529)</td> <td>IP52</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>86 x 192 x 97 mm</td> </tr> <tr> <td>Weight</td> <td>0.380 kg</td> </tr> </table>	Range	18 m	Supply voltage (typical)	10 ~ 16 V _{DC}	Current consumption	12 mA (29 mA on alarm)	Alarm output contact	30 V _{DC} / 75 mA opening on alarm	Tamper contact	30 V _{DC} / 50 mA	Walk-test indicator	LED	Walk test input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V	Sensitivity evaluation mode	standard / high	Operating temperature	-20 ~ +55°C	Housing protection (IEC529)	IP52	Dimensions (W x H x D)	86 x 192 x 97 mm	Weight	0.380 kg	4455550001	007811
Range	18 m																										
Supply voltage (typical)	10 ~ 16 V _{DC}																										
Current consumption	12 mA (29 mA on alarm)																										
Alarm output contact	30 V _{DC} / 75 mA opening on alarm																										
Tamper contact	30 V _{DC} / 50 mA																										
Walk-test indicator	LED																										
Walk test input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V																										
Sensitivity evaluation mode	standard / high																										
Operating temperature	-20 ~ +55°C																										
Housing protection (IEC529)	IP52																										
Dimensions (W x H x D)	86 x 192 x 97 mm																										
Weight	0.380 kg																										
																											
IR310CD	<p>Visatec PIR detector, 18 m wide angle</p> <p>Same technical details as IR310C but VdS approved</p>	4463630001	007812																								
IR310MD	<p>Visatec PIR detector, 18 m wide angle</p> <p>Same technical details as IR310C but with following differences and/or features</p> <table> <tr> <td>Supply voltage (typical)</td> <td>8 ~ 16 V_{DC}</td> </tr> <tr> <td>Current consumption</td> <td>4.5 mA (26 mA on alarm)</td> </tr> <tr> <td>Alarm output contact</td> <td>30 V_{DC} / 100 mA (change over cont.)</td> </tr> <tr> <td>Set/unset input</td> <td>LOW ≤ 1.5 V / HIGH ≥ 3.5 V</td> </tr> <tr> <td>Electronic output</td> <td>during alarm => 0 V (open collector)</td> </tr> <tr> <td>Jam output</td> <td>first alarm => 0 V</td> </tr> <tr> <td>Disturbance signal output</td> <td>active => 0 V (open collector)</td> </tr> <tr> <td>Signal indicator</td> <td>active => 0 V (open collector)</td> </tr> </table>	Supply voltage (typical)	8 ~ 16 V _{DC}	Current consumption	4.5 mA (26 mA on alarm)	Alarm output contact	30 V _{DC} / 100 mA (change over cont.)	Set/unset input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V	Electronic output	during alarm => 0 V (open collector)	Jam output	first alarm => 0 V	Disturbance signal output	active => 0 V (open collector)	Signal indicator	active => 0 V (open collector)	4459080001	007813								
Supply voltage (typical)	8 ~ 16 V _{DC}																										
Current consumption	4.5 mA (26 mA on alarm)																										
Alarm output contact	30 V _{DC} / 100 mA (change over cont.)																										
Set/unset input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V																										
Electronic output	during alarm => 0 V (open collector)																										
Jam output	first alarm => 0 V																										
Disturbance signal output	active => 0 V (open collector)																										
Signal indicator	active => 0 V (open collector)																										
IR312C	<p>Visatec PIR detector, 50 m long range curtain</p> <p>Same technical details as IR310C but with following difference</p> <table> <tr> <td>Long range (curtain)</td> <td>50 m</td> </tr> </table>	Long range (curtain)	50 m	4459660001	007811																						
Long range (curtain)	50 m																										
IR312CD	<p>Visatec PIR detector, 50 m long range curtain</p> <p>Same technical details as IR310CD but with following difference</p> <table> <tr> <td>Long range (curtain)</td> <td>50 m</td> </tr> </table>	Long range (curtain)	50 m	4462110001	007812																						
Long range (curtain)	50 m																										
IR312MD	<p>Visatec PIR detector, 50 m long range curtain</p> <p>Same technical details as IR310MD but with following difference</p> <table> <tr> <td>Long range (curtain)</td> <td>50 m</td> </tr> </table>	Long range (curtain)	50 m	4461010001	007813																						
Long range (curtain)	50 m																										
IRMF310	<p>Masking foil for IR310 wide angle</p> <p>Masking foil for the coverage of individual exposed detection zones.</p> <table> <tr> <td>Packing unit</td> <td>10 pieces per package</td> </tr> </table>	Packing unit	10 pieces per package	4564890001																							
Packing unit	10 pieces per package																										
IRMF312	<p>Masking foil for IR312 long range curtain</p> <p>Masking foil for the coverage of individual exposed detection zones.</p> <table> <tr> <td>Packing unit</td> <td>10 pieces per package</td> </tr> </table>	Packing unit	10 pieces per package	4564920001																							
Packing unit	10 pieces per package																										

internal motion detectors

Type

Description / Technical data

Order No.

Datasheet No.

IRAK3**Back tamper contact**

Suitable for IR200, IR270, IR310, LM100, UP370

The IRAK3 back tamper can be fitted in the base of the detector for additional surveillance against vandalism of pulling the detector of the wall.

Weight 0.007 kg

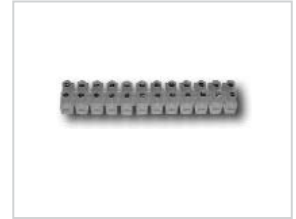
4648530001**IRKL3****Auxiliary terminal**

Suitable for IR200, IR270, IR310, UP370, GM560, GM570

For additional terminal need, the IRKL3 can be easy mounted in the base of the detector.

Packing unit 1 x 12 piece per package

Weight 0.020 kg

4457880001**IRPL31****Zone locator for IR310, IR312**

The zone locator allows accurate and easy identification of the zone limits and centres.

Weight 0.008 kg

4556840001

Siemens**PIR motion detectors with anti-mask****IR270CT****Visatec II PIR detector with Anti-mask, 18 m wide angle****A5Q00003273 007753**

A unique combination of immunity to false alarms and maximum detection reliability make the IR270CT ideal suited to use in a wide range of applications, including commercial and industrial premises, large private houses, public buildings and similar locations that require stringent security regulations.

Supply voltage (typical)	8 ~ 16 V _{DC}
Current consumption	3.2 mA (<12 mA on alarm)
Alarm output contact / load	30 V _{DC} / 100 mA opening on alarm
Tamper contact / load	30 V _{DC} / 100 mA
Optical System	black infrared triplex mirror 18 m
Walk-test indicator	LED
Walktest input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Sensitivity evaluation mode	4 settings
Walking speed	0.1 ~ 4 m/s (wide angle)
Operating temperature	-20 ~ +55°C
Housing protection	IP41
Dimensions (W x H x D)	55 x 135.5 x 50 mm
Weight	0.170 kg

**IR270T****Visatec II PIR detector with Anti-mask, 18 m wide angle****562710001 006894**

Same technical details as IR270CT but VdS approved.

IRS272**Curtain mirror set for IR270 and Rair270, 30 m curtain (4 pcs.)****5717330001**

The IRS272 black curtain mirror has overlapping coverage zones to form a complete monitored area to detect persons passing through.

Packing unit	4 pieces per package
Weight	0.020 kg

**IRUM20****Wall mount bracket****5622470001**

Suitable for IR100, IR120, IR270

With the IRUM20, the detectors can be swivelled into special positions for wall mounting applications.

Angle range adjustment:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °

Weight	0.044 kg
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**IRUM30****Ceiling mount bracket****5622500001**

Suitable for IR100, IR120, IR270

With the IRUM30, the detectors can be swivelled into special positions for ceiling mounting applications.

Angle range:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °

Weight	0.072 kg
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internal motion detectors

Type

Description / Technical data

Order No.

Datasheet No.

IRAK3**Back tamper contact**

Suitable for IR200, IR270, IR310, LM100, UP370

The IRAK3 back tamper can be fitted in the base of the detector for additional surveillance against vandalism of pulling the detector of the wall.

Weight 0.007 kg

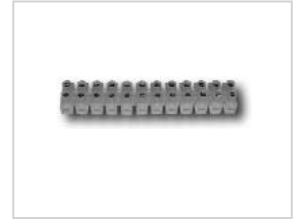
4648530001**IRKL3****Auxiliary terminal**

Suitable for IR200, IR270, IR310, UP370, GM560, GM570

For additional terminal need, the IRKL3 can be easily mounted in the base of the detector.

Packing unit 1 x 12 piece per package

Weight 0.020 kg

4457880001

Siemens**PIR ceiling mount motion detectors****IR261****Passive Infrared detector for ceiling**

The IR261 ceiling-mounted passive infrared detector with detection coverage of 360° is used to monitor rooms for unauthorized access.

Range	7.6 m radius / 360 °
Supply voltage (typical)	10.5 ~ 18 V _{DC}
Current consumption	< 35 mA
Alarm output contact rating	max. 30 V _{DC} / 250 mA
Sensitivity adjustment	4 levels
Operating temperature	-15 ~ +55 °C
Humidity (EN60721)	≤ 95 % rF, non-condensing
Housing protection (IEC529)	IP41
Dimensions (∅ x H)	120 x 47 mm
Weight	0.130 kg

5667770001**004405**

PIR/microwave motion detectors

IRM80**Easytec PIR/MW 12m Motion detector**

The IRM80 is the ideal motion detector for residential applications. High detection security with up to 12kg pet immunity is achieved through the use of a specially designed fresnel lens and the elaborated signal analysis. This ensures also that IRM80 is very robust against false alarms.

Range	12m wide angle
RF-Frequency	2.45 GHz
Supply voltage	8 ~ 16 V _{DC}
Current consumption	4.5 mA, (max. 18 mA on alarm)
Temper output	30 V _{DC} , 100 mA
Sensitivity adjustment	DIP-Switch
Operatin temperature	-20 ~ +55° C
Housing protection (IEC529)	IP41
Dimensions (W x H x D)	87 x 51 x 45
Weight	0.100 kg

571678**IRM120C****PIR/MW Motion Detector**

The IRM120C has intelligence. Reliable recognition of intruders is ensured thanks to sophisticated digital MATCHTEC[®] signal processing and interconnection between the microwave and passive-infrared sections. To achieve this, both subsystems are subjected to a multicriteria analysis, and any unwanted interference is recognized and suppressed by the individual subsystems. A special protection concept also makes the detector insensitive to environmental problems such as draughts, temperature fluctuations, electromagnetic interference, ingress by insects or external light.

Supply voltage (typical)	8 ~ 16 V _{DC}
Current consumption	7.5 mA (20 mA on alarm)
Microwave (MW)	2.45 Ghz / max. 10 mW EIRP
Alarm output	
-Relay contact	30 V- / 100 mA
-Alarm holding time	2 - 3 s
Tamper contact	30 V- / 50 mA ohmic load
Control inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Operating temperature	- 20 - + 55°C
Storage temperature	- 20 ... + 60°C
Air humidity (EN 60721)	< 95% rH, non-condensing
EMC up to 2 GHz	30 V/m
Weight	0.120 kg

A5Q00004068 008261**IRS122****Curtain mirror (4 pcs)****5623020001****IRMC104****Pet-Clip (4 pcs)****5623150001****IRUM20****Wall mount bracket****5622470001**

Suitable for IR100, IR120, IR270

With the IRUM20, the detectors can be swivelled into different positions for wall mounting applications.

Angle range adjustment:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °

Weight	0.044 kg
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**IRUM30****Ceiling mount bracket****5622500001**

Suitable for IR100, IR120, IR270

With the IRUM30, the detectors can be swivelled into different positions for ceiling mounting applications.

Angle range:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °

Weight	0.072 kg
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Type	Description / Technical data	Order No.	Datasheet No.																										
IRM270C	<p>Matchtec PIR/MW detector 10.525 GHz, 18 m wide angle</p> <p>Family design, reliable motion detection and excellent immunity to disturbances make the IRM270C ideal suited to use in a wide range of applications, including commercial and industrial premises, large houses and public buildings.</p> <table border="0"> <tr> <td>Supply voltage (typical)</td> <td>8 ~ 16 V_{dc}</td> </tr> <tr> <td>Current consumption</td> <td>7.5 mA (13 mA on alarm)</td> </tr> <tr> <td>Alarm output contact</td> <td>30 V_{dc} / 100 mA opening on alarm</td> </tr> <tr> <td>Tamper contact</td> <td>30 V_{dc} / 50 mA</td> </tr> <tr> <td>Optical system</td> <td>Black triplex mirror 18 m</td> </tr> <tr> <td>Walk test indicator</td> <td>LED</td> </tr> <tr> <td>Control inputs</td> <td>LOW ≤ 1.5 V / HIGH ≥ 3.5 V</td> </tr> <tr> <td>Sensitivity evaluation mode</td> <td>4 PIR settings / 4 MW settings</td> </tr> <tr> <td>Walking speed</td> <td>0.2 ~ 4.0 m/s</td> </tr> <tr> <td>Operating temperature</td> <td>-20 ~ +55°C</td> </tr> <tr> <td>Housing protection</td> <td>IP41</td> </tr> <tr> <td>Dimensions (W x H x D)</td> <td>55 x 135.5 x 55 mm</td> </tr> <tr> <td>Weight</td> <td>0.180 kg</td> </tr> </table>	Supply voltage (typical)	8 ~ 16 V _{dc}	Current consumption	7.5 mA (13 mA on alarm)	Alarm output contact	30 V _{dc} / 100 mA opening on alarm	Tamper contact	30 V _{dc} / 50 mA	Optical system	Black triplex mirror 18 m	Walk test indicator	LED	Control inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V	Sensitivity evaluation mode	4 PIR settings / 4 MW settings	Walking speed	0.2 ~ 4.0 m/s	Operating temperature	-20 ~ +55°C	Housing protection	IP41	Dimensions (W x H x D)	55 x 135.5 x 55 mm	Weight	0.180 kg	A5Q00007825	008556
Supply voltage (typical)	8 ~ 16 V _{dc}																												
Current consumption	7.5 mA (13 mA on alarm)																												
Alarm output contact	30 V _{dc} / 100 mA opening on alarm																												
Tamper contact	30 V _{dc} / 50 mA																												
Optical system	Black triplex mirror 18 m																												
Walk test indicator	LED																												
Control inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V																												
Sensitivity evaluation mode	4 PIR settings / 4 MW settings																												
Walking speed	0.2 ~ 4.0 m/s																												
Operating temperature	-20 ~ +55°C																												
Housing protection	IP41																												
Dimensions (W x H x D)	55 x 135.5 x 55 mm																												
Weight	0.180 kg																												
																													
IRM270CUK	<p>Matchtec PIR/MW detector 10.687 GHz, 18 m wide angle</p> <p>Same technical details as IRM270C but with special microwave module for British Standards</p>	A5Q00007840	008558																										
IRM270CFR	<p>Matchtec PIR/MW detector 9.9 GHz, 18 m wide angle</p> <p>Same technical details as IRM270C but with special microwave module for French Standards</p>	A5Q00007831	008557																										
IRM270MD	<p>Matchtec PIR/MW detector 9.35 GHz, 18 m wide angle</p> <p>Same technical details as IRM270C but with special microwave module for German Standards</p>	A5Q00002671	008528																										

Siemens**LM100C****Matchtec PIR/MW detector 10.525 GHz, 12 m wide angle**

An attractive design, good value for money, outstanding immunity, reliable detection, and simple installation are the features which make the Matchtec LM100C the ideal motion detector for office, commercial and industrial applications.

Packing unit	1 piece per carton
Range	12 m, adjustable to 9 m and 6 m
Supply voltage (typical)	8 ~ 16 V _{DC}
Current consumption	< 15 mA (30 mA on alarm)
Alarm output contact rating	max. 30 V _{DC} / 100 mA
Tamper output	30 V _{DC} / 100 mA
Walk-test indicator	LED
Walktest input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Sensitivity adjustment	adjustable at potentiometer
Operating temperature	-10 ~ +55°C
Housing protection (IEC529)	IP41
Dimensions (W x H x D)	63 x 139 x 51 mm
Weight	0.160 kg

5195880001

008111

**LM100CUK****Matchtec PIR/MW detector 10.687 GHz, 12 m wide angle**

Same technical details as LM100C but with special microwave module for the British Standards.

5197660001

LM100CFR**Matchtec PIR/MW detector 9.9 GHz, 12 m wide angle**

Same technical details as LM100C but with special microwave module for the French Standards.

5393510001

LM100MD**Matchtec PIR/MW detector 9.35 GHz, 12 m wide angle**

Same technical details as LM100C but with special microwave module for the German Standards and with following feature:

Set/unset input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
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5399110001

LPAL12**Pet alley lens for LM100, 12 m pet alley**

The LPAL12 pet alley lens is designed for free space for animals to move in the detection field.

Packing unit	3 pieces per package
Weight	0.040 kg

5029190001




**LLRL12****Curtain lens for LM100, 12 m long range**

The LLRL12 long range lens is designed to detect persons passing through the monitored area.

Packing unit	3 pieces per package
Weight	0.055 kg

5029220001



Type	Description / Technical data	Order No.	Datasheet No.
IRUM2	<p>Wall mount bracket</p> <p>Suitable for IR200, LM100, UP370</p> <p>With the IRUM2 the detector can be swivelled into special positions for wall mounting applications.</p> <p>Angle range adjustment:</p> <ul style="list-style-type: none"> - vertical +10 ~ -15° - horizontal +45 ~ -45° <p>Weight 0.100 kg</p>	5198760001	
IRUM3	<p>Ceiling mount bracket</p> <p>Suitable for IR200, LM100, UP370</p> <p>With the IRUM3 the detector can be swivelled into special positions for ceiling mounting applications.</p> <p>Angle range:</p> <ul style="list-style-type: none"> - vertical +10 ~ -15° - horizontal +45 ~ -45° <p>Weight 0.160 kg</p>	5198890001	
IRAK3	<p>Back tamper contact</p> <p>Suitable for IR200, IR270, IR310, LM100, UP370</p> <p>The IRAK3 back tamper can be fitted in the base of the detector for additional surveillance against vandalism of pulling the detector of the wall.</p> <p>Weight 0.007 kg</p>	4648530001	

Siemens**PIR/ultrasound motion detectors****UP370C****Matchtec PIR/US detector, 10 m wide angle**

Attractive design, reliable movement detection and excellent immunity to disturbances make the MATCHTEC® UP370C the ideal motion detector for demanding commercial, industrial and high-security applications.

Range	10 m wide angle
Supply voltage (typical)	8 ~ 16 Vdc
Current consumption	17 mA (33 mA on alarm)
Alarm output contact rating	30 Vdc / 100 mA
Tamper output contact rating	30 Vdc / 50 mA
Walk-test indicator	LED
Control input walk test	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Sensitivity adjustment	4 settings
Walking speed	0.1 ~ 4 m/s
Operating temperature	-20 ~ +55°C
Housing protection (EN60529)	IP41
Dimensions (W x H x D)	70 x 170 x 63 mm
Weight	0.220 kg

5198180001**007804****UP370MD****Matchtec PIR/US detector, 10 m wide angle**

Same technical details as UP370C but including following differences and features:

Current consumption	16 mA (32 mA on alarm)
Set/unset input	LOW ≤ 1.5 V / HIGH ≥ 3.5 V

5198210001**007805****UP370T****Matchtec PIR/US detector with Anti-mask, 10 m wide angle**

Same technical details as UP370C but with following differences and features:

Current consumption	18 mA (34 mA on alarm)
Antimasking and fault output	
– semi conductor relay	30 Vdc / 100 mA
Antimask	0 up to approx 0.2 m clearance
– real time signal evaluation	by ultrasound and active infrared

5199990001**007806****UP370TLSN****Matchtec PIR/US detector with Anti-mask, 10 m wide angle**

Same technical details as UP370T but suited for connection on LSN gateway SAG61 (for Sintony 400 only)

5397880001**IRMF20****Masking foil**

Suitable for IR200, UP370

The IRMF20 allows to mask individual mirror segments in special applications.

Packing unit	10 pieces per package
Weight	0.075 kg




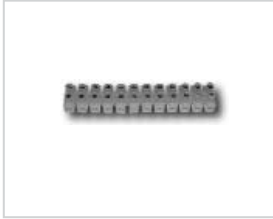
5209200001**IRMC1****Short-range masking clip, 6 x 6 m wide angle**

Suitable for IR200, UP370

The IRMC1 reduces the coverage area to 6 x 6 m and is recommended to be used in rooms smaller than that size.

Packing unit	10 pieces per package
Weight	0.125 kg

5209170001

Type	Description / Technical data	Order No.	Datasheet No.
IRUM2	<p>Wall mount bracket</p> <p>Suitable for IR80, IR200, LM100 UP370</p> <p>With the IRUM2 the detector can be swivelled into special positions for wall mounting applications.</p> <p>Angle range adjustment:</p> <ul style="list-style-type: none"> - vertical +10 ~ -15° - horizontal +45 ~ -45° <p>Weight 0.100 kg</p>	5198760001	
IRUM3	<p>Ceiling mount bracket</p> <p>Suitable for IR80, IR200, LM100 UP370</p> <p>With the IRUM3 the detector can be swivelled into special positions for ceiling mounting applications.</p> <p>Angle range:</p> <ul style="list-style-type: none"> - vertical +10 ~ -15° - horizontal +45 ~ -45° <p>Weight 0.160 kg</p>	5198890001	
IRAK3	<p>Back tamper contact</p> <p>Suitable for IR200, IR270, IR310, LM100 UP370</p> <p>The IRAK3 back tamper can be fitted in the base of the detector for additional surveillance against vandalism of pulling the detector of the wall.</p> <p>Weight 0.007 kg</p>	4648530001	
IRKL3	<p>Auxiliary terminal</p> <p>Suitable for IR200, IR270, IR310, UP370, GM560, GM570</p> <p>For additional terminal need, the IRKL3 can be easy mounted in the base of the detector.</p> <p>Packing unit 1 x 12 piece per package</p> <p>Weight 0.020 kg</p>	4457880001	

Wireless motion detectors

Rair270

Wireless motion detector 18m wide angle

Besides the SiRoute system we will enhance as well the current wireless solution which is in combination with the Label radio module.

Range	18 m wide angle
Wireless module - Range	100 m
Lithium battery	2 x 3.6V
Alarm output logic level	high
Alarm holding time	2 - 3 s
Tamper contact rating	via radio
Walktest mode activation	by tamper contact or magnet
Walktest auto reset	4 minutes after activation
Walking speed	0.2 ~ 3 m/s
Operating temperature	-20 ~ +55°C
Housing protection (EN60529)	IP41
Dimensions (W x H x D)	70 x 170 x 63 mm
Weight	0.220 kg

5718980001

007442



IRS272

Curtain mirror set for IR270 and Rair270, 30m curtain (4pcs.)

The IRS272 black curtain mirror has overlapping coverage zones to form a complete monitored area to detect persons passing through.

Packing unit	4 pieces per package
Weight	0.020 kg

5717330001



IRUM20

Wall mount bracket

Suitable for IR100, IR120, IR270, Rair 270

With the IRUM20, the detectors can be swivelled into special positions for wall mounting applications.

Angle range adjustment:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °

Weight	0.044 kg
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5622470001



IRUM30

Ceiling mount bracket

Suitable for IR100, IR120, IR270, Rair 270

With the IRUM30, the detectors can be swivelled into special positions for ceiling mounting applications.

Angle range:

- vertical	+10 ~ -15 °
- horizontal	+45 ~ -45 °

Weight	0.072 kg
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5622500001



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PIR motion detectors

IS39x 	<ul style="list-style-type: none"> • Private premises • Industrial sites • Government facilities • Military camps 	<ul style="list-style-type: none"> • Mirror • 21 m volume • 50 m curtain 	<ul style="list-style-type: none"> • Software 	<ul style="list-style-type: none"> • No
IS40x 	<ul style="list-style-type: none"> • Long window or door fronts • Private grounds • Industrial sites • Government facilities 	<ul style="list-style-type: none"> • Mirror • 100 m / 120 m curtain 	<ul style="list-style-type: none"> • Tester • Telescope • Sounder 	<ul style="list-style-type: none"> • No
IS412 	<ul style="list-style-type: none"> • Long window or door fronts • Private grounds • Industrial sites • Government facilities 	<ul style="list-style-type: none"> • Mirror • 150 m curtain 	<ul style="list-style-type: none"> • Tester • Telescope • Sounder 	<ul style="list-style-type: none"> • Yes

Active infrared barriers

IS43x 	<ul style="list-style-type: none"> • Long window or door fronts • Private premises • Industrial sites 	<ul style="list-style-type: none"> • Twin beam • Up to 120 m 	<ul style="list-style-type: none"> • Cover mask and adjustment tools included 	<ul style="list-style-type: none"> • No
IS44x 	<ul style="list-style-type: none"> • Long window or door fronts • Private premises • Industrial sites 	<ul style="list-style-type: none"> • 4 beams • Up to 200 m 	<ul style="list-style-type: none"> • Cover mask and adjustment tools included 	<ul style="list-style-type: none"> • Yes

Active infrared columns

IS460 	<ul style="list-style-type: none"> • Private premises • Industrial sites • Government facilities • Military camps 	<ul style="list-style-type: none"> • Up to 12 beams 3.2 column • Up to 8 beams 2.2 column • 200 m range 	<ul style="list-style-type: none"> • Adjusting tools • Software • Lamp • Cover mask 	<ul style="list-style-type: none"> • Yes
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Siemens

PIR motion detectors

IS390

Outdoor PIR detector, volumetric 21 m

5398270001

007854

Universal application for outdoor monitoring of unauthorized entry. Uniform high sensitivity over the entire detection range including close-in detection by means of focused mirror optics. For volumetric detection.

Range	21 m wide angle
Supply voltage (12V nominal)	10.5 ~ 28 V _{DC}
Current consumption	15 mA (20 mA on alarm)
Alarm output contact rating	28 V _{DC} / 500 mA
Tamper output contact rating	30 V _{DC} / 100 mA
Walktest input; unset/set	LOW ≤ 1.5 V / HIGH ≥ 3.5 V

Adjustments:

ATD Adapt. Treshold Decoding activated / deactivated

Sensitivity 100 / 75 / 40 %

Pulse count off / on

Operating temperature -20 ~ +60°C

Housing protection (EN60529) IP64

Dimensions (W x H x D) 100 x 128 x 247 mm

Weight 0.880 kg



IS390H

Outdoor PIR detector, volumetric 27 m, with Heating

A5Q00005094

007854

Same technical details as IS390 but with following differences

Range 27 m wide angle

Operating temperature -40 ~ +60°C

Silicon wafer window

Heated mirror optics

IS392

Outdoor PIR detector, curtain 50 m

5398300001

007868

Same technical details as IS390 but with following differences

Range 50 m curtain

Adjustments:

Pulse count not available

Silicon wafer window

Heated mirror optics

IS392H

Outdoor PIR detector, volumetric 60 m, with Heating

A5Q00005095

007868

Same technical details as IS392 but with following differences

Range 60 m curtain

Operating temperature -40 ~ +60°C

IS402

Outdoor PIR detector, curtain shape 100 m

4872250001

008113

The passive infrared barrier type IS402 is used in intrusion detection systems to build a combined perimeter monitoring facility and for the use as motion detector to activate video surveillance systems.

Curtain shape max. 100 m nominal

Supply voltage (typical) 10.5 ~ 28 V_{DC}

Current consumption 15 mA (max. 15 mA on alarm)

Alarm output NC contact 28 V_{DC} / 500 mATamper output / load 48 V_{DC} / max. 250 mA

Operating temperature -20 ~ +60°C

Housing protection (IEC529) IP53

Dimensions (∅ x D) 90 x 242 mm

Weight 1.400 kg



IS404

Outdoor PIR detector, curtain shape 120 m

The IS404 is suitable for use in outdoor environment. The integral mounting bracket allows alignment of the detector in any position. Switches permit easy and quick set-up. Ideal for use to activate combined video surveillance system.

Curtain shape	120 m wide angle
Current consumption	20 mA
Alarm output SPDT contact	28 V _{DC} / 250 mA
Operating temperature	-20 ~ +60 °C
Dimensions (∅ x D)	100 x 128 x 247 mm
Weight	1.115 kg

A5Q00005097 007869



IS404H

Outdoor PIR detector, curtain coverage 150 m, with Heating

Same technical details as IS404 but with following differences

Range	150 m wide angle
Operating temperature	-40 ~ +60°C
Silicon wafer window	
Heated mirror optics	

A5Q00005096 007869

IS412

Outdoor PIR detector, curtain shape 150 m

Same technical details as IS402 but with following differences

Curtain shape	max. 150 m nominal
Current consumption	30 mA (max. 15 mA on alarm)
Alarm output SPDT contact	28 V _{DC} / 250 mA
Operating temperature	-40 ~ +60°C
Dimensions (∅ x D)	90 x 330 mm
Weight	1.345 kg

445500001 008118



ISIF485

Installation module and software

This installation software is very useful for alignment and signal check during setup and maintenance.

Weight	0.600 kg
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5566620001



ISIT44

Installation tester

The installation tester ISIT44 is used for alignment, setting up and fault finding and is recommended for all installations using IS402 and IS412.

Weight	0.600 kg
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4769930001



ISTC41

Installation telescope


The installation telescope ISTC41 can be used for easy alignment of the surveillance zone and to set the sensitivity at the point of installation.

Weight	0.320 kg
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4455260001



external motion detectors

Type	Description / Technical data	Order No.	Datasheet No.
ISMD41-1	<p>Mounting flange for pole mounting</p> <p>This clamp is used for masts with a diameter up to 100 mm. Weight 0.730 kg</p>	4455390001	
ISMD41-2	<p>Universal mounting flange</p> <p>This clamp can be fixed anywhere by means of two holes in the pivot plate. Weight 0.400 kg</p>	4455420001	

Siemens**active infrared barriers****IS433****Intelligent twin active infrared beams, outdoor 20 m**

Modern and intelligent active infrared beams especially designed for perimeter protection. The synchronised and intelligent "twin" beams reinforce each other to improve both range and stability in severe weather conditions. Use BP -60TE when pole mounted.

Protection distance	outdoor 20 m, indoor 40 m
Supply voltage (max)	12 ~ 30 Vdc / 55 mA
Alarm output contact rating	opens on alarm, 30 V (AC/DC) <0.5 A
Tamper output contact rating	opens on alarm, 30 V (AC/DC) <0.5 A
Detection system	Simultaneous breaking of 2 beams
Infrared beam	LED pulsed beam, double modulation
Frequency	4 separate choices of frequencies
Response time	50 ~ 700 msec. (variable)
Vertical beam adjustment	+10 ~ -10°
Horizontal beam adjustment	+90 ~ -90°
Operating temperature	-25 ~ +60°C
Dimensions (W x H x D)	73 x 170 x 71.5 mm
Weight	0.780 kg

5299760001**008139****IS434****Intelligent twin active infrared beams, outdoor 40 m**

As above for technical details with the following differences.

Protection distance	outdoor 40 m, indoor 80 m
Supply voltage	12 ~ 30 Vdc / 75 mA (max)

5299630001**008139****IS435****Intelligent twin active infrared beams, outdoor 60 m**

As above for technical details with the following differences.

Protection distance	outdoor 60 m, indoor 120 m
Supply voltage	12 ~ 30 Vdc / 80 mA (max)

5299050001**008139****BP-60TE****Pole mounting cover for IS433, IS434 and IS435 beams**

Special cover designed to weather-proof IS433, IS434 and IS435 beams when mounted on round poles outside.

Packing unit	1 pair per carton
Pole sizes	Ø 38 ~ 45 mm
Weight	0.400 kg



5386370001**IS443****Intelligent quad active infrared outdoor beams 50 m**

Modern and intelligent active infrared beams especially designed for perimeter protection. The synchronised and sophisticated "quad" beams reinforce each other to improve both range and stability in severe weather conditions. Use BP-200F when pole mounted.

Protection distance	outdoor 50 m, indoor 500 m
Supply voltage (max)	12 ~ 30 Vdc / 95 mA
Alarm output contact rating	opens on alarm, 30 V (AC/DC) <1 A
Tamper output contact rating	opens on alarm, 30 V (AC/DC) <0.1 A
Detection system	simultaneous breaking of 4 beams
Infrared beam	LED pulsed beam, double modulation
Frequency	4 separate choices of frequencies
Response time	50 ~ 700 msec. (variable)
Vertical beam adjustment	+10 ~ -10°
Horizontal beam adjustment	+90 ~ -90°
Operating temperature	-25 ~ +60°C
Dimensions (W x H x D)	104 x 390 x 98 mm
Weight	2.500 kg

5299920001**008138**

external motion detectors

Type	Description / Technical data	Order No.	Datasheet No.
IS444	<p>Intelligent quad active infrared outdoor beams 100 m</p> <p>As above for technical details with the following differences.</p> <p>Protection distance outdoor 100 m, indoor 1000 m</p> <p>Power supply 12 ~ 30 Vdc / 105 mA (max)</p>	5299890001	008138
IS445	<p>Intelligent quad active infrared outdoor beams 200 m</p> <p>As above for technical details with the following differences.</p> <p>Protection distance outdoor 200 m, indoor 2000 m</p> <p>Power supply 12 ~ 30 Vdc / 120 mA (max)</p>	5299500001	008138
BP-200F	<p>Pole mounting cover for IS443, IS444 and IS445 beams</p> <p>Special cover designed to weather-proof IS443, IS444 and IS445 beams when mounted on round poles outside.</p> <p>Packing unit 1 pair per carton</p> <p>Pole sizes Ø 38 ~ 45 mm</p> <p>Weight 0.615 kg</p>	5386240001	
HTF-24	<p>Heater for IS443, IS444 and IS445 beams</p> <p>Special low voltage heater for IS443, IS444 and IS445 beams.</p> <p>Packing unit 1 pair per carton</p> <p>Power supply (typical) 24 Vdc / 860 mA</p> <p>Weight 0.082 kg</p>	5386110001	

Siemens**active infrared columns****ISB460-7****Transmitter/Receiver set with cable and heater****A5Q00002784**

Transmitter and receiver set complete with connecting cables (1.2 m length) and heaters. Autosynchronisation by the infrared beam of the transmitter and receiver without cables between the columns.

Packing unit	1 pair per carton
Protection distance	outdoor 150 m
Power supply (max)	9 ~ 16 Vdc / 100 mA each unit
Infrared beam	pulsed and modulated
Frequency	5 separate choices of frequencies
Optical system	Ø 70mm glass lens and mirror
Vertical beam adjustment	+15 ~ -15 °
Horizontal beam adjustment	+90 ~ -90 °
Operating temperature	-30 ~ +80 °C
Heater power supply (max)	18 ~ 21 VAC / 100mA each unit
Heater on/off temperature	on <10 °C / off >25 °C
Dimensions (W x H x D)	92 x 230 x 110 mm
Weight	2.200 kg

**ISC460-1****Column 2.19 m, glass front****4811240001**

Highly stable and torsion resistant column with plexiglass front. Pre-arranged mounting places for 8 transmitter or receiver sets with 250mm beam spacing when fully equipped.

Packing unit	1 piece per carton
Dimensions (W x H x D)	140 x 2190 x 205mm
Weight	23.000kg

**ISC460-2****Column 3.21 m, glass front****4923750001**

Highly stable and torsion resistant column with plexiglass front. Pre-arranged mounting places for 12 transmitter or receiver sets with 250 mm beam spacing when fully equipped.

Packing unit	1 piece per carton
Dimensions (W x H x D)	140 x 3210 x 205 mm
Weight	34.000 kg

ISC460-F1**Column 3 m, for horizontal installation****A5Q00002785**

Highly stable and torsion resistant column with plexiglass front for horizontal installation. Prearranged mounting places for 12 transmitter or receiver sets.

ISS460-1**Transmitter terminal board****A5Q00002786**

Used for the connection of the power supply and discharge protection.






Power supply(max)	9 ~ 16 Vdc / 100 mA
Tamper output contact rating	opens on alarm, 30 Vdc / 50 mA
Operating temperature	-30 ~ +80°C
Dimensions (W x H x D)	95 x 120 x 25 mm
Weight	0.250 kg

**ISS460-2****Transmitter control unit for max. 12 transmitter sets****A5Q00002787**

Used for the connection of the transmitter (up to 12 units). All the mode switches are placed on this card for the transmitter mode settings.

Operating temperature	-30 ~ +80°C
Dimensions (W x H x D)	95 x 164 x 25 mm
Weight	0.330 kg

**ISS460-F3****Spare transmitter with connecting cable and heater****A5Q00002794**

Type	Description / Technical data	Order No.	Datasheet No.
ISE460-1	<p>Receiver terminal board</p> <p>Used for the connection of the power supply and discharge protection. Signal output for alarm, tamper and disqualification.</p> <p>Power supply(max) 9 ~ 16 V_{DC} / 100 mA</p> <p>Alarm output contact rating opens on alarm, 30 V_{DC} / 100 mA</p> <p>Tamper output contact rating opens on alarm, 30 V_{DC} / 50 mA</p> <p>Disqualification contact rating opens on alarm, 30 V_{DC} / 100 mA</p> <p>Operating temperature -30 ~ +80 °C</p> <p>Dimensions (W x H x D) 95 x 120 x 25 mm</p> <p>Weight 0.250 kg</p>	A5Q00002788	
ISE460-2	<p>Receiver control unit for max. 12 receiver sets</p> <p>Used for the connection of the receivers (up to 12 units). All the mode switches are placed on this card for all the receiver mode settings.</p> <p>Operating temperature -30 ~ +80 °C</p> <p>Dimensions (W x H x D) 95 x 164 x 25 mm</p> <p>Weight 0.350 kg</p>	A5Q00002789	
ISE460-F3	<p>Spare receiver with connecting cable and heater</p>	A5Q00002795	
IST460-1	<p>Column cover with climb-over protection</p> <p>Used for outdoor applications.</p> <p>Weight 2.600 kg</p>	4811370001	
IST460-2	<p>Column cover, flat, without climb-over protection</p> <p>Used for ceiling and wall mounting indoors.</p> <p>Weight 2.600 kg</p>	4811820001	
IST460-F1	<p>Column cover, for horizontal installation, flat, without climb-over protection</p> <p>Used for horizontal installations.</p>	A5Q00002792	
ISF460-F1	<p>Column base, for horizontal installation, flat, without climb-over protection</p> <p>Used for horizontal installations.</p>	A5Q00002793	
ISF460-1	<p>Column Base with tamper with thermostat</p> <p>For mounting indoors.</p> <p>Weight 4.300 kg</p>	4811530001	

external motion detectors

Type

Description / Technical data

Order No.

Datasheet No.

ISF460-3**Bolt anchor for column base mounting**

For fixation in existing concrete ground.
Weight 0.560 kg

4869960001**ISP460-1****Base plate for embedding in concrete**

For mounting in open terrain.
Weight 3.500 kg

4811790001**ISF460-4****Column Base, flat, tamper with thermostat**

For mounting indoors.
Weight 1.500 kg

4811950001**ISN460-1****Power supply board**

115 / 230 VAC, to be mounted in the column
Weight 0.925 kg

A5Q00002790**ISN460-2****Power supply, for heating unit 115 / 230 VAC****A5Q00002791****ISI460****Adjusting and auxiliary tools**


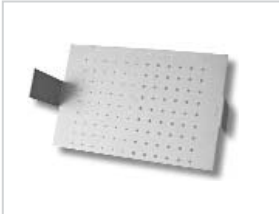
Installation tools needed for the setup and installation of the IS460.
Weight 0.370 kg

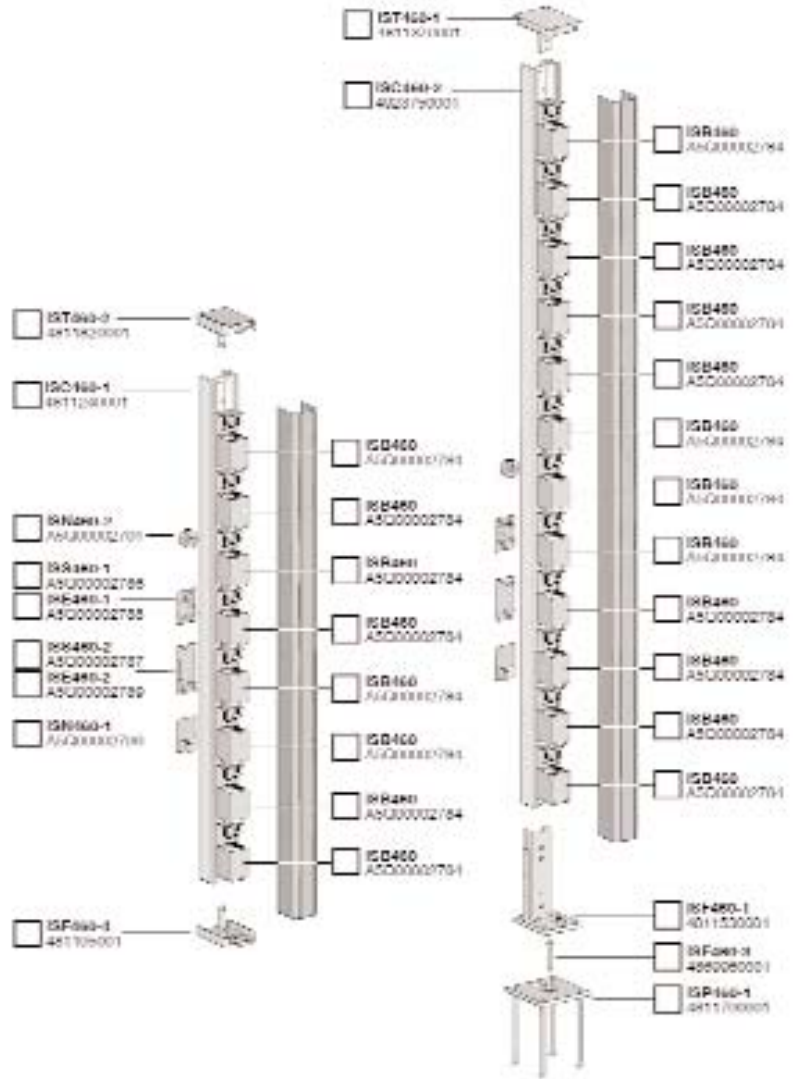
4812050001**ISI460-1****Installation program for RS232 connection**

This installation software is very useful for alignment and signal check during setup and maintenance supplied together with connecting cable.
Weight 0.100 kg

4923880001

external motion detectors

Type	Description / Technical data	Order No.	Datasheet No.
ISL460	Adjusting lamp For easy alignment. Weight 1.530 kg	4812180001	
ISM460	Cover mask for disqualification test For functional disqualification test in the field. Weight 0.350 kg	4812210001	
ISV460-1	Installation set	5635340001	
IST460-3	Extension part for additional column length	5182170001	



product overview

	Application	Coverage area for all tools	Sensitivity adjustment	Coverage area for mechanical tools only
GM52x 	<ul style="list-style-type: none"> • Ticket & vending machines • Small (hotel room) safes 	<ul style="list-style-type: none"> • 1.5 m range • 7 m² 	<ul style="list-style-type: none"> • 4 levels 	<ul style="list-style-type: none"> • 1.5 m range • 7 m²
GM530 	<ul style="list-style-type: none"> • Safes / Night-safes • ATM's • Strong-rooms • Doors 	<ul style="list-style-type: none"> • 3 m range • 28 m² 	<ul style="list-style-type: none"> • 4 levels 	<ul style="list-style-type: none"> • 6 m range • 113 m²
GM56x 	<ul style="list-style-type: none"> • Safes / Night-safes • ATM's • Strong-rooms and doors • "Modular and LWS" 	<ul style="list-style-type: none"> • 4 m range • 50 m² 	<ul style="list-style-type: none"> • 6 levels 	<ul style="list-style-type: none"> • 7 m range • 154 m²
GM570 	<ul style="list-style-type: none"> • Safes / Night-safes • ATM's • Strong-rooms and doors • "Modular and LWS" 	<ul style="list-style-type: none"> • 4 m range • 50 m² 	<ul style="list-style-type: none"> • 6 levels • with software any 	<ul style="list-style-type: none"> • 7 m range • 154 m²
GM730 	<ul style="list-style-type: none"> • Safes / Night-safes • ATM's • Strong-rooms • Doors 	<ul style="list-style-type: none"> • 4 m range • 50 m² 	<ul style="list-style-type: none"> • 3 levels • with software any 	<ul style="list-style-type: none"> • 7 m range • 154 m²
GM760 	<ul style="list-style-type: none"> • Safes / Night-safes • ATM's • Strong-rooms and doors • "Modular and LWS" 	<ul style="list-style-type: none"> • 5 m range • 80 m² 	<ul style="list-style-type: none"> • 3 levels • with software any 	<ul style="list-style-type: none"> • 9 m range • 255 m²
GM770 	<ul style="list-style-type: none"> • Safes / Night-safes • ATM's • Strong-rooms and doors • "Modular and LWS" 	<ul style="list-style-type: none"> • 5 m range • 80 m² 	<ul style="list-style-type: none"> • 3 levels • with software any 	<ul style="list-style-type: none"> • 9 m range • 255 m²

Siemens**GM525****Seismic detector for vending machines (relay closes on alarm)****5023170001****008105**

Universal application for round-the-clock monitoring of vending machines, ticket automates, public telephones and small hotel room safes. Special low-profile design makes the GM525 ideal for use where reliable detection performance is required but available mounting space is limited.

Coverage area for all tools	range 1.5 m / 7 m ²
Power supply (typical)	7 ~ 16 Vdc
Current consumption (12 VDC)	3 mA (8 mA on alarm)
Alarm output relay	closes on alarm, 30 Vdc / 100 mA
Tamper output contact rating	opens on alarm, 30 Vdc / 100 mA
Function test duration	LOW ≤ 1.5 V
Sensitivity adjustment	4 levels
Response time adjustment	2 levels
Shock setting adjustment	2 levels
Operating temperature	-20 ~ +60 °C
Housing protection (EN60529)	IP43
Dimensions (W x H x D)	89 x 89 x 22 mm
Weight	0.320 kg

**GM526****Seismic detector for vending machines (relay opens on alarm)****5035360001****008105**

Same technical details as GM525 but with following differences

Alarm output relay	opens on alarm, 30 Vdc / 100 mA
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GM530**Seismic detector with low profile design****4896500001****008106**

Universal application for round-the-clock monitoring of safes, night deposits and automatic cash dispensers. Special low-profile design makes the GM530 ideal for use where best detection performance is required but available space is limited.

Coverage area – for all tools	range 3 m / 28 m ²
– for mechanical tools only	range 6 m / 113 m ²
Power supply (typical)	7 ~ 16 Vdc
Current consumption (12 Vdc)	3 mA (3.5 mA on alarm)
Alarm output (changeover cont.)	opens on alarm, 30 Vdc / 100 mA
Tamper output cover contact	opens on alarm, 30 Vdc / 100 mA
Function test duration	LOW ≤ 1.5 V
Sensitivity adjustment	4 levels
Response time adjustment	2 levels
Shock setting adjustment	3 levels
Operating temperature	-20 ~ +60 °C
Housing protection (EN60529)	IP43
Dimensions (W x H x D)	89 x 89 x 22 mm
Weight	0.320 kg

**GM560****Seismic detector for multi-purpose use****4738600001****008107**

Universal application for round-the-clock monitoring of safes, cash dispensers, night deposits, strong-room and modular vaults made of steel, concrete and armoured or synthetic composites. Specially designed for best detection performance and maximum immunity to environmental influences.

Coverage area – for all tools	range 4 m / 50 m ²
– for mechanical tools only	range 7 m / 154 m ²
Power supply (typical)	7 ~ 16 Vdc
Current consumption	3 mA (5 mA on alarm)
Alarm output (changeover cont.)	opens on alarm, 30 Vdc / 100 mA
Tamper output contact rating	opens on alarm, 30 Vdc / 100 mA
Mounting and function test	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Remote sensitivity reduction	LOW ≤ 1.5 V
Sensitivity adjustment	6 levels
Response time adjustment	2 levels
Operating temperature	-20 ~ +60 °C
Housing protection (EN60529)	IP43
Dimensions (W x H x D)	89 x 89 x 39.5 mm
Weight	0.395 kg



seismic detectors

Type	Description / Technical data	Order No.	Datasheet No.
GM565	<p>Seismic detector for multi-purpose use with additional features</p> <p>Same technical details as GM560 but with following additional features</p> <ul style="list-style-type: none"> - temperature protection 98°C - anti-drilling shield built-in 	4733650001	008108
GM565LSN	<p>Seismic detector for multi-purpose use with additional features</p> <p>Same technical details as GM565 but suited for connection on LSN gateway SAG61 (for Sintony 400 only)</p>	5028960001	
GM570	<p>Seismic detector for intelligent multi-purpose use</p> <p>Universal application for round-the-clock monitoring of strongroom walls and doors, safes, night deposits and automatic cash dispensers. Optional Sens Tool software enables modification of default operating parameters and monitoring of current detector performance.</p> <p>Coverage area – for all tools range 4 m / 50m²</p> <ul style="list-style-type: none"> – for mechanical tools only range 7 m / 154 m² <p>Power supply (12 V nominal) 8 ~ 16 Vdc</p> <p>Current consumption (12 Vdc) 4 mA (5 mA on alarm)</p> <p>Alarm output semiconduct.relays opens on alarm, 30 Vdc / 100 mA</p> <p>Disturbance output</p> <ul style="list-style-type: none"> - open collector disturbance -> 0 V / Ri 1 kOhm <p>Tamper output semicond. relay opens on alarm, 30 Vdc / 100 mA</p> <p>Function test duration LOW ≤ 1.5 V / HIGH ≥ 3.5 V</p> <p>Sensitivity adjustment</p> <ul style="list-style-type: none"> - DIP switch settings 6 fixed levels - Via Sens Tool PC software freely programmable <p>Operating temperature -40 ~ +60°C</p> <p>Housing protection (EN60529) IP43</p> <p>Dimensions (W x H x D) 89 x 89 x 22 mm</p> <p>Weight 0.345 kg</p>	5204700001	008110
GM570LSN	<p>Seismic detector for intelligent multi-purpose use</p> <p>Same technical details as GM570 but suited for connection on LSN gateway SAG61 (for Sintony 400 only)</p>	5395000001	
GM730	<p>Seismic detector for applications on steel and concrete</p> <p>Universal application for around-the-clock monitoring of safes, night deposits and automatic teller machines. The GM730 is completely testable together with optional test transmitter GMXS1. Optional SensTool software enables modification of default operation parameters and monitoring of current detector performance.</p> <p>Coverage area</p> <ul style="list-style-type: none"> - For all tools range 4 m / 50 m² - For mechanical tools only range 7 m / 154 m² <p>Supply voltage (typical) 8 ~ 16 Vdc</p> <p>Current consumption 3 mA (5 mA on alarm)</p> <p>Alarm output contact 30 Vdc / 100 mA opening on alarm</p> <p>Tamper contact 30 Vdc / 1000 mA</p> <p>Function test inputs LOW ≤ 1.5 V / HIGH ≥ 3.5 V</p> <p>Remote sensitivity reduction</p> <ul style="list-style-type: none"> - Input for reduction LOW ≤ 1.5 V / HIGH ≥ 3.5 V - Reduction to 1/8 of the actual setting <p>Sensitivity adjustment</p> <ul style="list-style-type: none"> - DIP switch settings 3 fixed levels - via SensTool PC software free programmable <p>Operating temperature -40 ~ +70°C</p> <p>Housing protection IP43</p> <p>Dimensions (W x H x D) 89 x 89 x 22 mm</p> <p>Weight 0.330 kg</p>	A5Q00005841	0088263



GM760**Seismic detector for intelligent multi-purpose use**

Universal application for around-the-clock monitoring of strong-room-walls and doors, safes, night deposits and automatic teller machines. The GM760 is completely testable together with optional test transmitter GMXS1. Optional SensTool software enables modification of default operation parameters and monitoring of current detector performance. Coverage area

- For all tools	range 5 m / 80 m ²
- For mechanical tools only	range 9 m / 255 m ²
Supply voltage (typical)	8 ~ 16 V _{DC}
Current consumption	3 mA (5 mA on alarm)
Alarm output contact	30 V _{DC} / 100 mA opening on alarm
Tamper contact	30 V _{DC} / 1000 mA
Function test inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Remote sensitivity reduction	
- Input for reduction	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
- Reduction to	1/8 of the actual setting
Sensitivity adjustment	
- DIP switch settings	3 fixed levels
- via SensTool PC software	free programmable
Operating temperature	-40 ~ +70°C
Housing protection	IP43
Dimensions (W x H x D)	89 x 89 x 22 mm
Weight	0.330 kg

GM770**Seismic detector with unique electrical drilling protection**

Universal application for around-the-clock monitoring of strong-room-walls and doors, safes, night deposits and automatic teller machines. The GM770 is completely testable together with optional test transmitter GMXS1. Optional SensTool software enables modification of default operation parameters and monitoring of current detector performance. Coverage area

- For all tools	range 5 m / 80 m ²
- For mechanical tools only	range 9 m / 255 m ²
Supply voltage (typical)	8 ~ 16 V _{DC}
Current consumption	3 mA (5 mA on alarm)
Alarm output contact	30 V _{DC} / 100 mA opening on alarm
Tamper contact	30 V _{DC} / 1000 mA
Function test inputs	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
Remote sensitivity reduction	
- Input for reduction	LOW ≤ 1.5 V / HIGH ≥ 3.5 V
- Reduction to	1/8 of the actual setting
Sensitivity adjustment	
- DIP switch settings	3 fixed levels
- via SensTool PC software	free programmable
Operating temperature	-40 ~ +70°C
Housing protection	IP43
Dimensions (W x H x D)	89 x 89 x 22 mm
Weight	0.330 kg

A5Q00005840 0088267**A5Q00005839 0088268**

GMSW7**SensTool interface and software for GM7xx**

SensTool software enables modification of default operation parameters. In addition, current detector information such as integration signals can be stored.

Weight 0.180 kg

A5Q00006246**GMXD7****Drilling protection for GM730 GM760**

As an additional protection against tampering, an electrical anti-drilling foil is available for fitting into the detector cover.

Packing units Set of 10 pcs

Weight 0.060 kg

A5Q00006245**GMXS5****External test transmitter for seismic detectors**

The test transmitter GMXS5 allows the full functional test of all seismic detectors of the GM5xx-family. It is mounted separately from the seismic detector onto the monitored object. Thus the complete assembly arrangement is tested for correct functioning.

Test range In % of the detection radius of the seismic detector

– GM570 100%

– GM52x, GM530, GM56x 75%

Power supply (12 V nominal) 8 ~ 16 Vdc

Current consumption (12 Vdc) 4 mA (12 mA with "test active")

Tamper output semicond. relay opens on alarm, 30 Vdc / 100 mA

Test input LOW ≤ 1.5 V / HIGH ≥ 3.5 V

Sensitivity adjustment






Operating temperature -40 ~ +70°C

Housing protection (EN60529) IP43





Dimensions (W x H x D) 89 x 89 x 22 mm




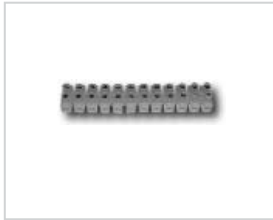
Weight 0.370 kg

562700001

Type	Description / Technical data	Order No.	Datasheet No.
GMXS1	<p>Internal test transmitter for GM560 / GM565 / GM570</p> <p>The GMXS1 is used for function and mouting test of the seismic detectors.</p> <p>Weight 0.020 kg</p>	4202370001	
GMXG0	<p>Test generator</p> <p>For the installation of an individual alarm display, e.g. in a site plan indicator panel, to activate up to 16 test transmitters GMXS1.</p> <p>Weight 0.045 kg</p>	2777100001	
YA8	<p>Alarm indicator panel</p> <p>For the storage and display of up to 8 alarm signals (test, tamper and real alarms) with self-monitoring against removal from the system housing.</p> <p>Weight 0.500 kg</p>	2776420001	
GMXA8	<p>Remote test system for Senstec™ Seismic detectors</p> <p>Test generator GMXG0 with indicator panel YA8 for regular functional checks of Senstec™ Seismic detectors</p> <p>Weight 0.0535 kg</p>	2776500001	
PZG21	<p>System box 1</p> <p>System housing for one unit GMXA8 and one unit YA8.</p> <p>Weight 0.230 kg</p>	2647070001	
PZG22	<p>System box 2</p> <p>System housing for two units GMXA8 and two units YA8.</p> <p>Weight 0.370 kg</p>	2646130001	
SensTool	<p>SensTool installation tester, interface and software for GM570</p> <p>The SensTool software allows operating parameters to be set individually. In addition, current information such as integrator signals can be stored.</p> <p>Weight 0.128 kg</p>	5207710001	
GMXP0	<p>Mounting plate for GM530 / GM560 / GM565 / GM570</p> <p>In the case of uneven or hardened steel plates, weld on mounting plate GMXP0.</p> <p>Weight 0.270 kg</p>	2772730001	

seismic detectors

Type	Description / Technical data	Order No.	Datasheet No.
GMXP	<p>Mounting plate for GM525 / GM526</p> <p>same as above but without mounting screws for concrete, weld on mounting plate GMXP. Weight 0.240 kg</p>	2767370001	
GMXP3	<p>Swivel plate for GM530 / GM560 / GM565 / GM570</p> <p>The swivel plate GMXP3 is used for the protection of safe and strongroom doors with exposed keyholes. Weight 0.525 kg</p>	3470190001	
SPACER/2 mm	<p>2 mm spacer plate for GMXP3</p> <p>Spacer needed for wider gap between keyhole and GMXP3 flange. Weight 0.010 kg</p>	3506110001	
SPACER/4 mm	<p>4 mm spacer plate for GMXP3</p> <p>Spacer needed for wider gap between keyhole and GMXP3 flange. Weight 0.020 kg</p>	3506240001	
GMAS6	<p>Fixing device</p> <p>For mounting detectors to the strong room or safe door. In that position it will detect mechanical attacks and attempts at unauthorized opening when the system is set. When the system is set, the monitor switch on the detector plate is closed and it immediately sets off the alarm, if the detector is removed from the doorplate. During working hours, the detector is transferred to the quiescent plate.</p>	4886060001	
GMXB0	<p>Floor box for GM560 / GM565 / GM570</p> <p>The GMXB0 is designed to be used for floor installations in concrete. Max. weight support 1000 kg Weight 2.085 kg</p>	2772020001	
GMXBS0	<p>80 x 300 x 300 mm polystyrene block for GMXB0</p> <p>The GMXBS0 is designed to leave enough space for the installation of the floor box GMXB0. Weight 0.150 kg</p>	2893550001	

Type	Description / Technical data	Order No.	Datasheet No.
GMXW0	<p>Wall recess box with cover for GM560 / GM565 / GM570</p> <p>The GMXW0 is designed to be used for wall and ceiling installations in concrete.</p> <p>Weight 1.160 kg</p>	2771210001	
GMXWG0	<p>Watertight housing for GM560 / GM565 / GM570</p>	3720260001	
GMXC1	<p>Conduit connection sleeve 21 mm for all seismic detectors</p> <p>The function of the conduit connection sleeve is to ensure fixed and secure connection of surface-mounted conduits.</p> <p>Outside diameter of conduits max. 21 mm</p> <p>Weight 0.010 kg</p>	4744320001	
GMXC2	<p>Conduit connection sleeve 16 mm for all seismic detectors</p> <p>Same technical details as GMXC1 but with following differences:</p> <p>Outside diameter of conduits max. 16 mm</p> <p>Weight 0.010 kg</p>	5021840001	
GMXD2	<p>Drill protection for GM560 / GM570</p> <p>As an additional protection against tampering, the GMXD2 can be fitted into the detector housing.</p> <p>Packing unit 1 piece per carton</p> <p>Weight 0.060 kg</p>	4881720001	
IRKL3	<p>Auxiliary terminal</p> <p>Suitable for IR200, IR270, IR310, UP370, GM560, GM570 For additional terminal need, the IRKL3 can be easy mounted in the base of the detector.</p> <p>Packing unit 1 x 12 piece per package</p> <p>Weight 0.020 kg</p>	4457880001	

Siemens**acoustic glass break detectors****AGB600****Audio glass break detector**

Versatility of application is ensured by the safe and reliable detection of glass breakage occurring on objects both small and large as well as on single or multiple glazed objects fitted with simple window glass, tempered safety glass, laminated glass or wire-reinforced glass.

Supply voltage	8 ~ 16 V _{DC}
Current consumption	3.2 mA - 8 mA
Alarm output tamper contact	30 V _{DC} / 100 mA
Sensitivity adjustment	automatic
Range	max. 8.5 m radius
Colour	white
Operating temperature	-10 ~ +55 °C
Weight	0.150kg

A5Q00001591 007389**GT2****Test unit for AGB600**

After a location has been selected, the GT-2 test unit can be used to check the AGB600 detector for correct acoustic coupling to the glass surfaces to be protected, prior to permanent installation.

Weight	0.251 kg
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5074190001

Siemens

TKU2

Surveillance Contact

The TKU2 is for front or side mounting on doors, windows, safes, garages, etc. It can also be used as sabotage protection for equipment in security systems; e.g. control units, electronic detectors etc. Single pole changeover contact

- switch power rating 25 W max.
- current 1 A max.
- voltage low voltage
- Actuating pressure 400 g max.
- Overtravel, depending on type
- changeover gap 4 ~ 7 mm
- Ambient temperature range -20 ~ +50 °C
- Weight 0.019 kg

2305080001

008126



TKU3

Surveillance Contact

The TKU3 can be used in similar applications as the TKU2 and on skylight or swivel windows with special locking mechanisms.

Same technical details as TKU2.
Weight 0.029 kg

2307860001

008126



TKU4

Surveillance Contact

The TKU4 is equipped with a special threaded plate for mounting directly on the lock plate i.e. in the lock bolt opening in the door frame.

Same technical details as TKU2.
Weight 0.033 kg

2307990001

008126



TKU5

Surveillance Contact

This model is the same as the TKU4, with a protective spring added.

Same technical details as TKU2.
Weight 0.037 kg

2442770001

008126



BM41**Electromechanical detector**

The picture surveillance system provides security for all works of art suspended on walls in museums and galleries. The system signals alarm when the object is touched, moved or removed, thus guaranteeing optimum surveillance especially when the gallery is open to the public. The BM41 triggers an alarm when the object is lifted from the hook.

Load carrying limits of detector and dummy hook

- min. suspended weight	1.5 kg
- max. suspended weight	
- in support rail BMT2	100 kg
- separate mounting	50 kg
- with extension hook	40 kg

Alarm outputs

- SPDT contact, low voltage max. load 1 A / 25 VA

Operating temperature range -20 ~ +50 °C

Enclosure protection category IP53

Weight 0.310 kg

3221020001**004466****BM46****Electronic detector**

The picture surveillance system provides security for all works of art suspended on walls in museums and galleries. The system signals alarm when the object is touched, moved or removed, thus guaranteeing optimum surveillance especially when the gallery is open to the public. The BM46 responds to movement of a few thousandths of a millimetre. Compatible to old system with BM45 detectors.

Load carrying limits of detector and dummy hook

- min. suspended weight	0.5 kg
- max. suspended weight	
- in support rail BMT2	100 kg
- separate mounting	50 kg
- with extension hook	40 kg

Supply 9 ~ 16 Vdc

Current consumption 8 mA

Alarm threshold continuously variable range approx. 1 : 6

Alarm outputs

- alarm relay max. 16 Vdc / 100 mA

- transistor with 1kOhm and diode in series minus potential at alarm

- alarm indicator LED

Alarm reset negative signal

Operating temperature range 0 ~ +50 °C

Enclosure protection category IP53

Weight 0.370 kg

5630000001**004466**

BM55**Electronic detector**

The picture surveillance system provides security for all works of art suspended on walls in museums and galleries. The system signals alarm when the object is touched, moved or removed, thus guaranteeing optimum surveillance especially when the gallery is open to the public. The BM55 responds to movement of a few thousandths of a millimetre. Not compatible to old systems with BM45, but VdS approved.

Load carrying limits of detector and dummy hook

– min. suspended weight 0.5 kg

– max. suspended weight

– in support rail BMT2 100 kg

– separate mounting 50 kg

– with extension hook 40 kg

Supply 9 ~ 16 V_{DC}

Current consumption 8 mA

Alarm threshold continuously variable range approx. 1 : 6

Alarm outputs

– alarm relay max. 16 V_{DC} / 100 mA

– transistor with 1k Ω and diode

in series minus potential at alarm

– alarm indicator LED

Alarm reset negative signal

Operating temperature range 0 ~ +50 °C

Enclosure protection category IP53

Weight 0.370 kg

5635470001

004466

**BMT2****Support rail 3 m**

Consisting of 1 rail section, 1 rail cover and 3 support brackets.

Weight 9.173 kg

3682760001

**BMTE2****End piece to BMT2**

Weight 0.094 kg

3682890001

BMTC2**Rail cover to BMT2**

Weight 2.800 kg

3683150001

HWBMT2**3 support brackets**

Weight 0.030 kg

3683020001

BMB1**Dummy hook for multi-point suspension**

For two and multi-point suspension the dummy hook BMB1, which has no detection capability, can be used together with a detector.

Weight 0.115 kg

1602090001



BMV4	Connection element for two BM45 and/or two BM 41 Connection element for two BM45 and/or two BM41, incl. 10 cable clips. Weight 0.350 kg	3216950001
BMZ4	Extension hook, required when rail is recess mounted Weight 0.067 kg	3302040001
BMD4/01	Steel wire, 1 mm diameter, 4 m long, adjustable Weight 0.032 kg	3230590001
BMD4/02	Steel wire, 2 mm diameter, 4 m long, adjustable Weight 0.103 kg	3230750001



Siemens**DV451****Showcase surveillance detector**

The DV451 showcase surveillance detector is used with intrusion detection systems to protect showcases of various designs. The new detection principle registers every kind of attack on the showcase promptly and reliably. The active detection system is used in showcases with a volume of 100 to 2000 litres in museums, art galleries and jeweller's shops as well as for facade showcases.

Supply	9 ~ 16 V _{DC}
Current consumption	
– 12V quiescent	45 ~ 120mA
– 12V on alarm	100 ~ 150mA
Alarm threshold continuously variable	range approx. 1 : 6
Alarm outputs	
– relay contact	100 V _{DC} / 0.4 mA / 10 W
– alarm holding time	5s
– alarm indicator	LED
Local horn relay	changeover contact
– Contact load	24 V _{DC} / 1A or 120 V _{AC} / 0.5A
Control input	
– inhibit horn	LOW < 1 V (2 mA) / HIGH > 3.5 V
Interface RS232	5 V
Loudspeaker 1 (small)	type AD4061/W8
Loudspeaker 2 (large)	type W170S/W8
Microphone	type WM-034DBU
Sensitivity	4 settings
Response time	4 steps
Showcase volume	100 ~ 2000 litre
Ambient conditions	
– operating temperature	0 ~ +50 °C
– storage temperature	-10 ~ +60 °C
– humidity (EN 60721)	< 95 % r.F. non condensing
– housing protection category	IP31
– immune to fields of HF interference	
0.1 ~ 1000 MHz (IEC801-3)	10 V/m
– immunity to spike voltages on supply line	
– differential (IEC801-5)	1 kV
– common mode (IEC801-5)	2 kV
Approvals	
– VdS	G197014
– CE	in conformity

4617330001**008143****DVZ451****Loudspeaker small**

For DV451

4681470001**008143****DVZ452****Loudspeaker large**

For DV451

4793010001**008143**

Siemens**FK32****Hold-up Foot rail**

The unobtrusive actuation of the hold-up foot rail FK32 makes it suitable for releasing alarm, triggering surveillance cameras and many other switching functions. The hold-up foot rail can be mounted on bank or shop counters, desks and similar applications.

Weight 0.632 kg

2305530001**008125****FKL3****L bracket, for wall mounting**

The L bracket FKL3 is available for wall mounting.

Weight 1.795 kg

2446170001**FKZ3****Z bracket, for floor mounting**

The Z-bracket FKZ3 is available for mounting on the floor.

Weight 3.242 kg

2446200001**FK3-S100K****Pack of 100 indicator caps**

Weight 0.024 kg

2436890001**HB120****Electronic hold-up contact**

With two push buttons, two programmable relays outputs

Supply voltage 9 ~ 30 Vdc

Current consumption (nom.12 V) 0.1 mA (25 mA on alarm)

Tamper output yes

Alarm outputs contact rating 1 A / 60 Vdc

Alarm reset 2 s / latched

Operating temperature -25 ~ +55 °C

Dimensions 65 x 80 x 30 mm

Weight 0.070 kg

5630130027**ND200LSN****Hold-up contact**

The ND200LSN is used for a discrete manual triggering of an alarm on places that are especially susceptible to attacks (e.g. banks). ABS housing RAL9002 and silver. Suited for connection on LSN gateway SAG61 (for Sintony 400 only).

Supply voltage 12 ~ 35 V

Current consumption approx. 0.5 mA

Type of protection IP40

Operating temperature 0 ~ +50 °C



Ambient climate DIN 40040 R14

Dimensions 81 x 31 mm

Weight 0.070 kg

VdS approval application pending

5632200001

Type	Description / Technical data	Order No.	Datasheet No.
AT11W	<p>Alarm button white for surface mounting</p> <p>For installation at the entrance to banks etc. in a desk or in a till.</p> <ul style="list-style-type: none"> – Elegant design which conforms with usual counters and yet is clearly recognizable as an alarm button. – Alarm button with one break contact each for the connection of an alarm and tamper line. – White paper disc printed with “ALARM” or “ALARM/CERBERUS” which must be punctured to actuate an alarm. It can be replaced without the use of tools. – LED indicator with self-hold for the signalling of alarm actuation or for acknowledgment. – The alarm button is protected against unauthorized opening by cover switch. <p>Surface-mounted and counter models. Two-section white-beige plastic housing.</p> <p>Contact load < 30VDC / 25 mA</p>	3889000001	
AT12W	<p>Alarm button white for recess mounting</p> <p>Same as AT11W but recess-mounted model for installation in standard recess boxes, diameter 55 mm, as well as in recess boxes UPR7. Colour white-beige. An universal plate is supplied with the unit.</p>	3889130001	
FAT7	<p>Alarm button for installation in desks and counters</p> <p>For installation in desks, counters, etc.</p> <ul style="list-style-type: none"> – Button with make and break contacts built into an anodized rosette. – A 12 V or 24 V incandescent lamp can be inserted in the button to signal alarm actuation or acknowledgement. – Replacable with white paper disc printed with the word “ALARM”. <p>Contact load < 24 VDC / 1 A</p>	2937810001	
UPR7	Recess box for AT12W	1854750001	
AT11W A/7	Replacement paper disc for AT11W, AT12W (10 pieces)	4198240001	
FAT6 A/7	Replacement paper disc for FAT7	2566500001	
TT1 B- A S	Replacement paper disc “ALARM” (100 pieces)	2728700001	

12 V smoke detector

Type

Description / Technical data

Order No.

Datasheet No.

OP312R**12 V optical smoke detector**

Optical smoke detector for conventional intrusion systems with patented optical chamber. Easy installation thanks to plug-in connectors and click-concept.

Supply voltage	8.0 - 16.0 V _{DC}
Current consumption (at 8 - 16 V _{DC})	
- Maximum when alarm occurs	< 10 mA
Alarm output	
- Semiconductor relay	30 V _{DC} / 100 mA / R _i < 40 Ohm ohmic load
- Alarm holding time	2 - 3 s
Detector threshold	2.5 %/m
Integration time	typ. 14 s
Ambient conditions	
- Operation temperature	-10 - +55°C
- Storage temperature	-20 - +65°C
- Humidity (DIN40040)	< 95 % r.h., non condensing
Weight	0.080 kg

A5Q00001969 007390**SOA322****Base attachment for surface mounting**

Base attachment for feeding in surface wiring and to provide more wire space. It may also be used as a junction box where up to 30 wires can be connected. Up to 10 connection terminals DBZ1190-AB may be clicked-into the base attachment SOA322. The base SO320 is mounted using a spring-loaded catch. Designed to be mounted during cabling.

Packing unit	30 pieces per carton
Dimensions (Ø x H)	100 x 20mm
Cable capacity	0.2 ~ 2.5mm ²
Further accessories:	
Connection terminal, 2.5mm ²	DBZ1190-AB

5358340001**DBZ1190-AB****Connection terminal, 2.5mm²**

The DBZ1190-AB is used to connect a variety of different cables in an organised, safe and easy way. Connection terminals fit into many devices. They are mentioned as an option, where they can easily be inserted in pairs.

Packing unit	100 pieces per carton
Cable capacity	1 ~ 2.5mm ²

4942340001**1382****RE6****Detector tester for optical detectors**

The detector tester is placed over the detector and given a brief push to release the test gas and so simulate the presence of fire aerosols. The detector responds quickly and actuates an alarm. The aerosol does not leave any residue in the detector optical chamber. Different bellows are available to guarantee the best fit. Mounts on extension rod VR10.

Further accessories:	
Bellow for Synova™ detectors	RG320

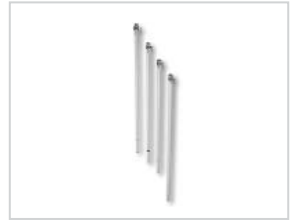
3680300001**1164****REF7-S****Test gas can**

Replacement test gas can for RE6 detector tester. Can be used for all type of detectors including optical detectors. It contains 350ml of non contaminating aerosol.

4763850001

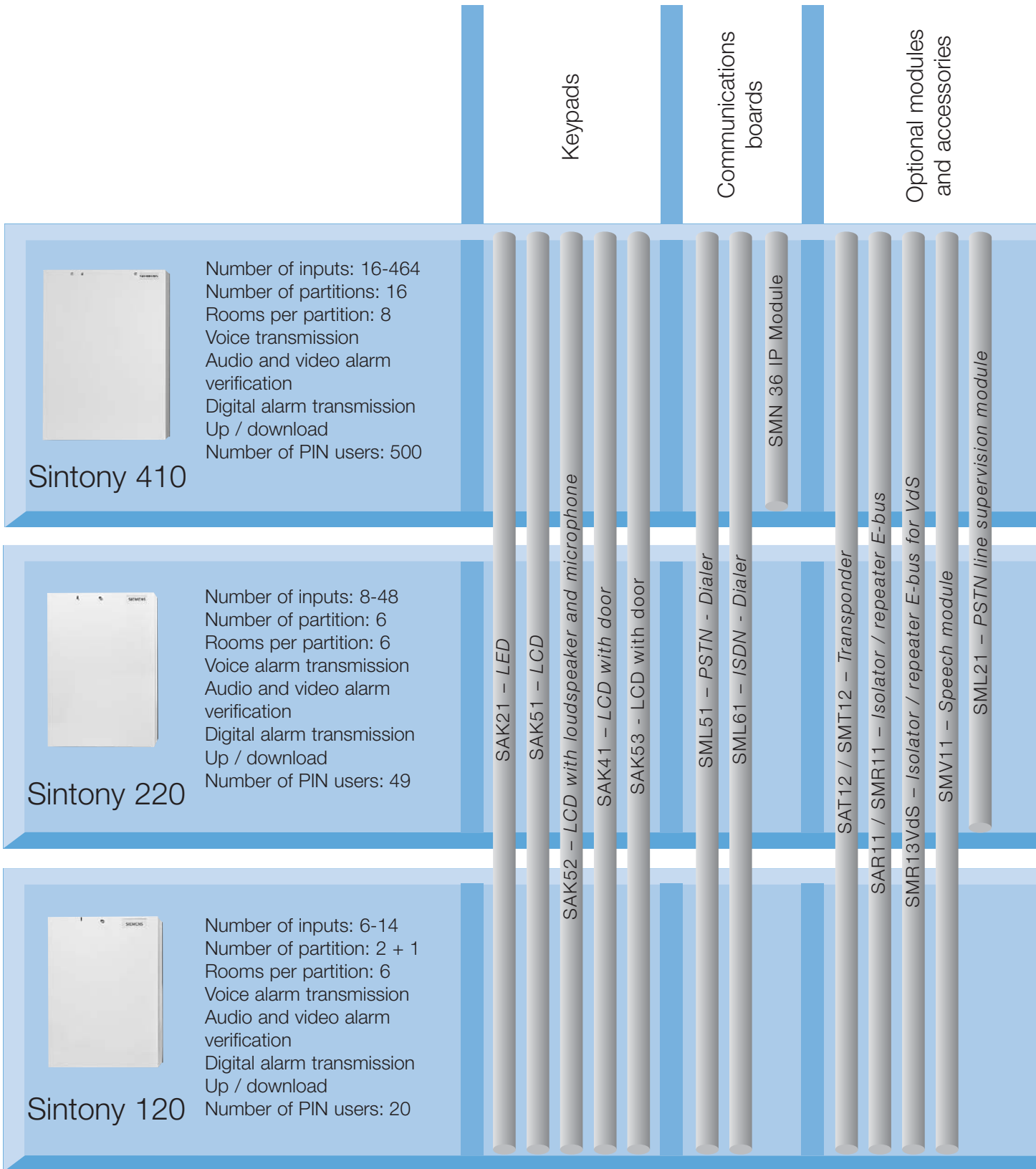
12 V smoke detector

Type	Description / Technical data	Order No.	Datasheet No.
VR10	Extension rod 1.5m Fits to RE6 and RE6T. By means of the extension rods, detectors can be changed and tested up to a height of 7m.	4482510001	1164 / 1220
VR11	Extension rod 1.5m Fits VR 10.	4482640001	1164 / 1220
VR12	Extension rod 1.5m Fits VR 11.	4482770001	1164 / 1220
VR13	Extension rod 1.9m Fits VR 12.	4482800001	1164 / 1220





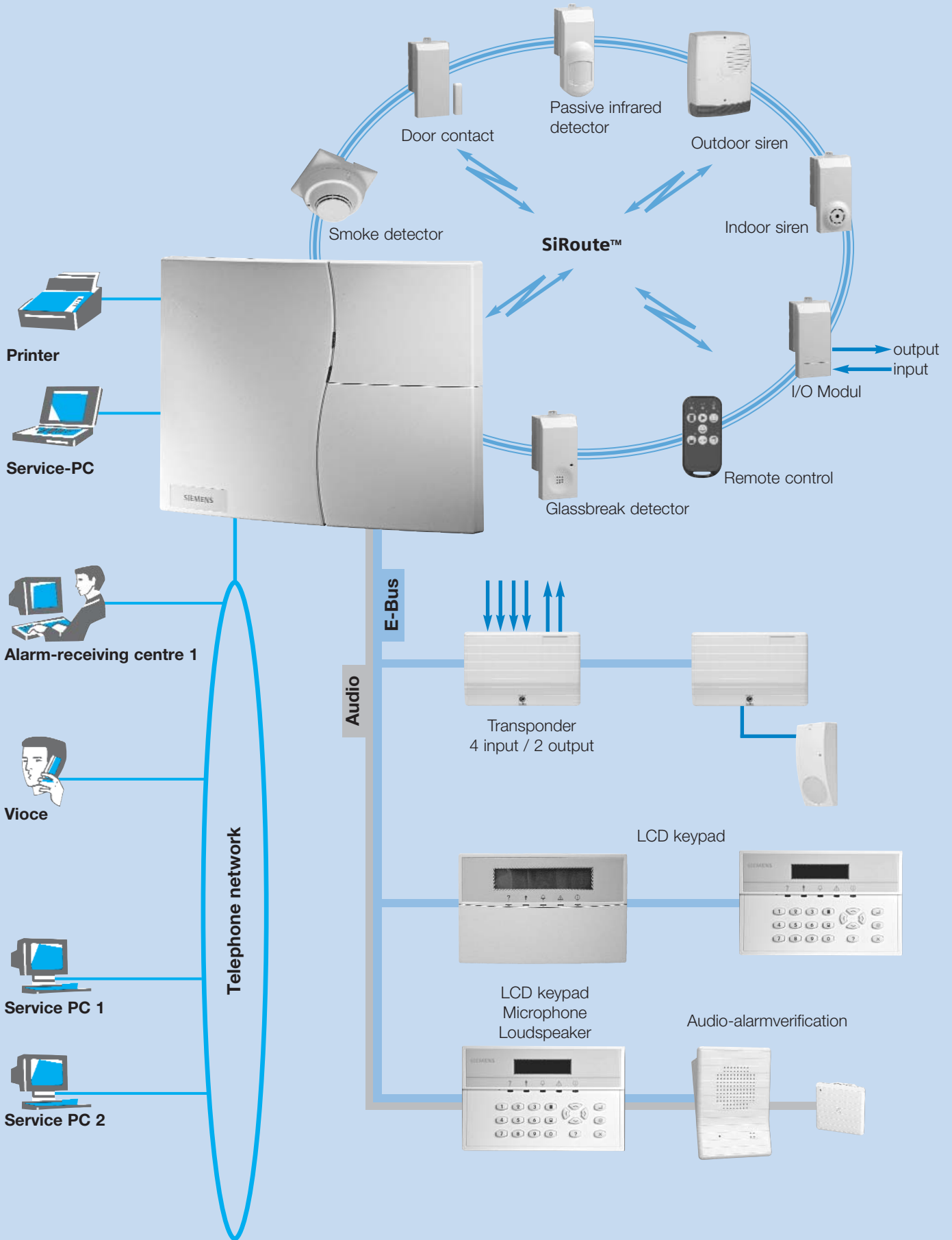
product overview







shintony 80 control panel



SI80-2**Sintony wireless control panel, 16-24 zones**

The SI80-2 is a modular control panel with integrated voice assistance. The control panel can be operated and programmed with the integrated or the optional external LCD keypad. The system programming is done either in a simple programming level or in expert mode with extended parameter set.

The base version of SI80-2 contains:

- Motherboard incl. power supply
- Integrated LCD keypad (2 x 16 char)
- Voice assistance
- Wireless transceiver for max. 14 SiRoute™ modules
- 2 wired inputs
- Integrated microphone and loudspeaker for audio alarm verification and remote voice assistance
- Optional dialer (PSTN or ISDN) for voice or alarm transmission to alarm monitoring stations of private subscribers

Optional wiring kit for hardware connection.

The features of SI80 are designed to use in residential environment and small offices.

The integrated E-bus interface offers a system expansion with bus peripherals of Sintony range.

Supply voltage (typical)	230 V _{AC} , ±10% / 50 Hz
Supply voltage (nominal)	
Current consumption	min. 80 mA, max. 300 mA
Battery	12 V _{DC} / 2.1 Ah
Output voltage (nominal)	12 V _{DC} / 0.8 A
Hardwired inputs on board	2
Wireless devices	max. 14
Additional hardwired zones	max. 8 (2 SAT12 / SMT12)
Remote controls	max. 8
User codes	8
Partitions	2
Event memory:	
- User	30 events
- Engineer	200 events
Optional LCD keypads on E-bus	max. 3
Open collector output (on board)	1 (12 V / 0.15 A)
Output relay (on board)	1 SPDT (24 V / 2 A)
Optional dialer	SML51 (PSTN), SML61 (ISDN)
Interface	1 RS232 for printer / PC
Operating temperature	0 ~ +40 °C
Dimensions (H x W x D)	350 x 230 x 65 mm
Housing protection	IP30
Weight (without battery)	1.600 kg

**SI81-2****Sintony wireless control panel, 16-24 zones****A5Q00005910**

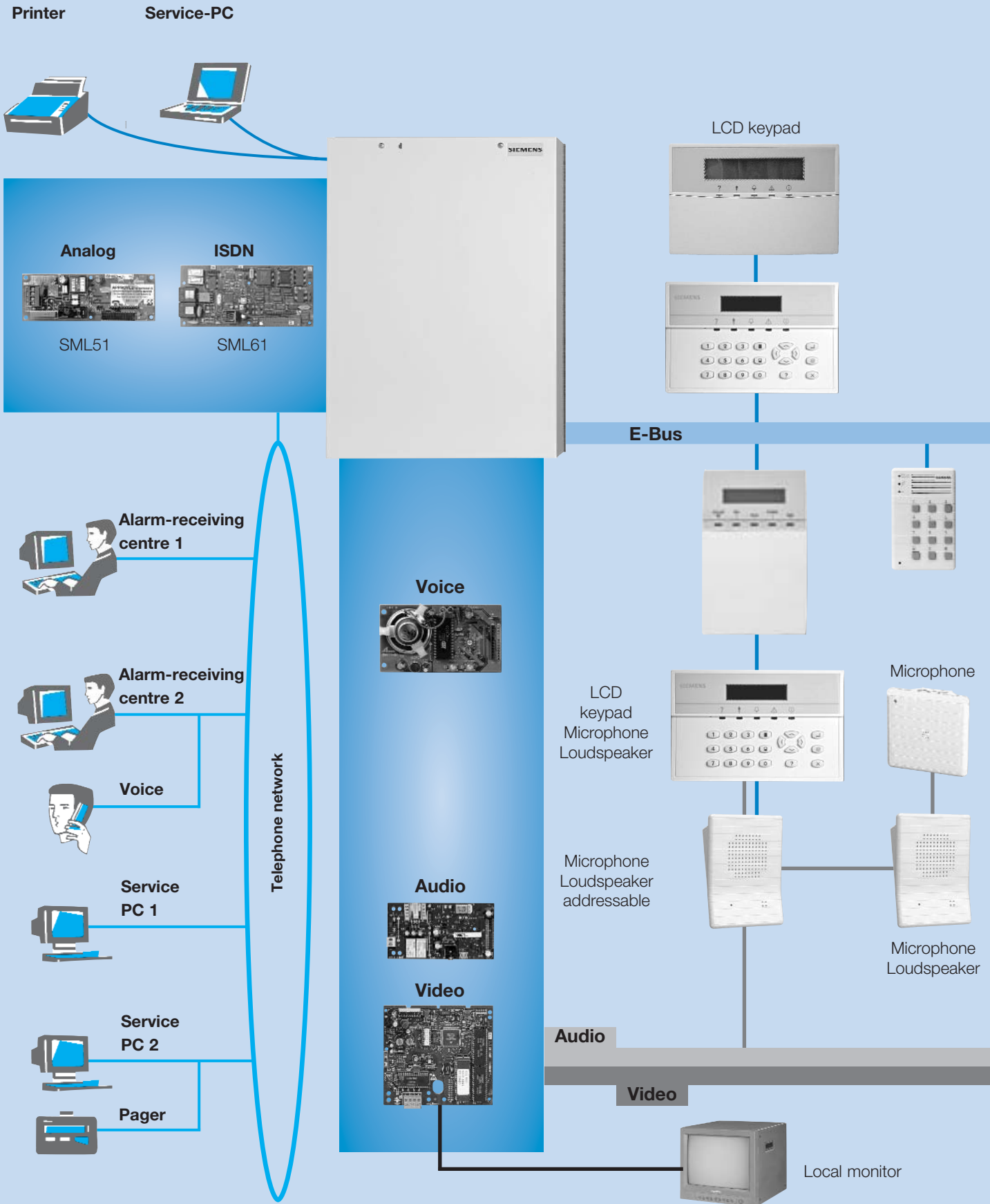
Same control panel as SI80-2 (without firmware), including integrated dialer SML51.

SLI80-2 D**German language kit for SI80-2 and SI81-2****A5Q00005911****SMZ81****Wiring kit for SI80****A6E80117910**

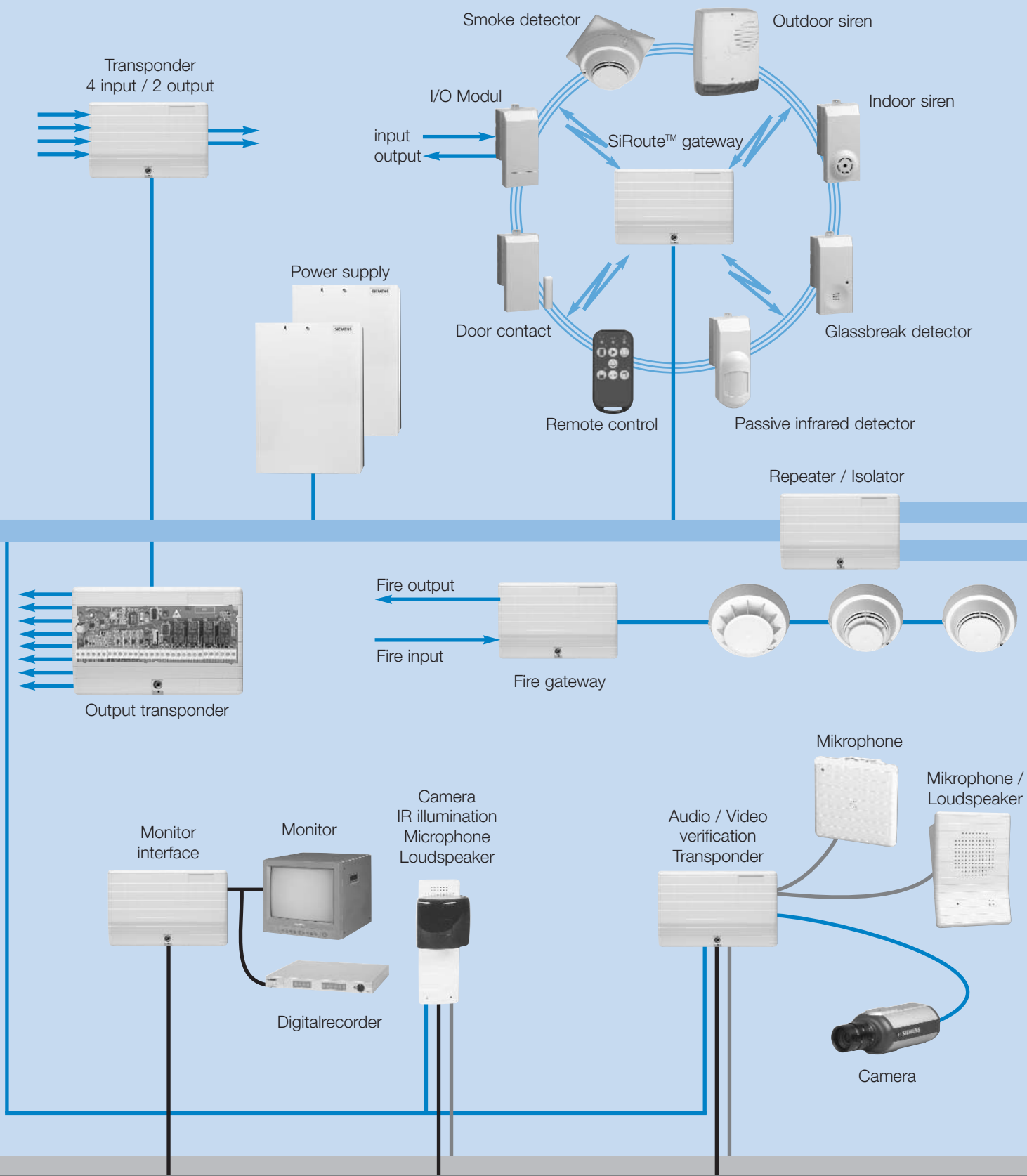
Connectors to connect E-Bus and hardwired inputs / outputs to motherboard.


i

shintony 120/220 control panel



sintony 120/220 control panel



Type	Description / Technical data	Order No.	Datasheet No.
SI120	<p>Sintony Control Panel 6-22 zones</p> <p>The Sintony 120 can be expandable from 6 to 22 inputs and is equipped with all the functions required to implement a high quality security system in the domestic and commercial sector.</p> <p>Supply voltage (typical) 230 VAC, ±10% / 50 Hz Current consumption max. 160 mA Battery 12 VDC / 7.2 Ah Auxiliary power (nominal) 12 VDC / 0.8 A Number of on-board zones 6 Max. number of hardwired zones 22 (4 SAT12 or SMT12) Max. number of output modules 1 (SMT44) Max. number of wireless zones 8 det – 7 on/off (1 receiver) Number of on-board open coll. 4, 12 V / 0.15 A Number of on-board relays 1 SPDT, 24 / 2 A Max. number of outputs 23 Max. number of user codes 20 Number of partitions 2 + 1 common Number of rooms per partition 6 Event memory 200 (user & engineer) Number of keypads max. 3 Time function 1 auto set per partition Number of verification devices max. 6 Video function Local cyclical video / picture transmission Telephone communicator Optional SML51 (PSTN) or SML61 (IDSN) Digital and Speech transmission Interfaces 1 RS232 for printer / PC Operating temperature -10 ~ +55 °C Dimensions (H x W x D) 331 x 265 x 33 mm Housing protection IP30 Weight (without battery) 3.200 kg</p>		
			
SI120CH	<p>Sintony Control Panel 6-22 zones Switzerland</p> <p>SI120 Panel for Switzerland without software</p>	8009800001	
SLI120CHD	Panel software kit for Swiss German	8007490001	
SLI120CHF	Panel software kit for Swiss French	8007500001	
SLI120CHI	Panel software kit for Swiss Italian	8007480001	
SI120CZ	Sintony Control Panel 6-22 zones Czech	8007110001	
SI120F	Sintony Control Panel 6-22 zones French	8007150001	
SI120F-NF	Sintony Control Panel 6-22 zones French NF	8007590001	
SI120HU	Sintony Control Panel 6-22 zones Hungarian	8010000001	
SI120UK	Sintony Control Panel 6-22 zones United Kingdom	A6E80115610	
SI120I	<p>Sintony Control Panel 6-22 zones Italian</p> <p>SI120 Panel with Italian software</p>	8007160001	
SI120PL	<p>Sintony Control Panel 6-22 zones Polish</p> <p>SI120 Panel with Polish software</p>	8007170001	
SI120NL	<p>Sintony Control Panel 6-22 zones Flemish</p> <p>SI120 Panel with Flemish software</p>	8007100001	
SI121ES	<p>Sintony Control Panel 6-22 zones Spanish</p> <p>SI120 Panel with Spanish software + SML51 PSTN communicator</p>	8007130001	

SI220**Sintony Control Panel 8-48 zones**

The Sintony 220 can be expandable from 8 to 48 inputs and is equipped with all the functions required to implement a high quality security system in the domestic, commercial and industrial sector.

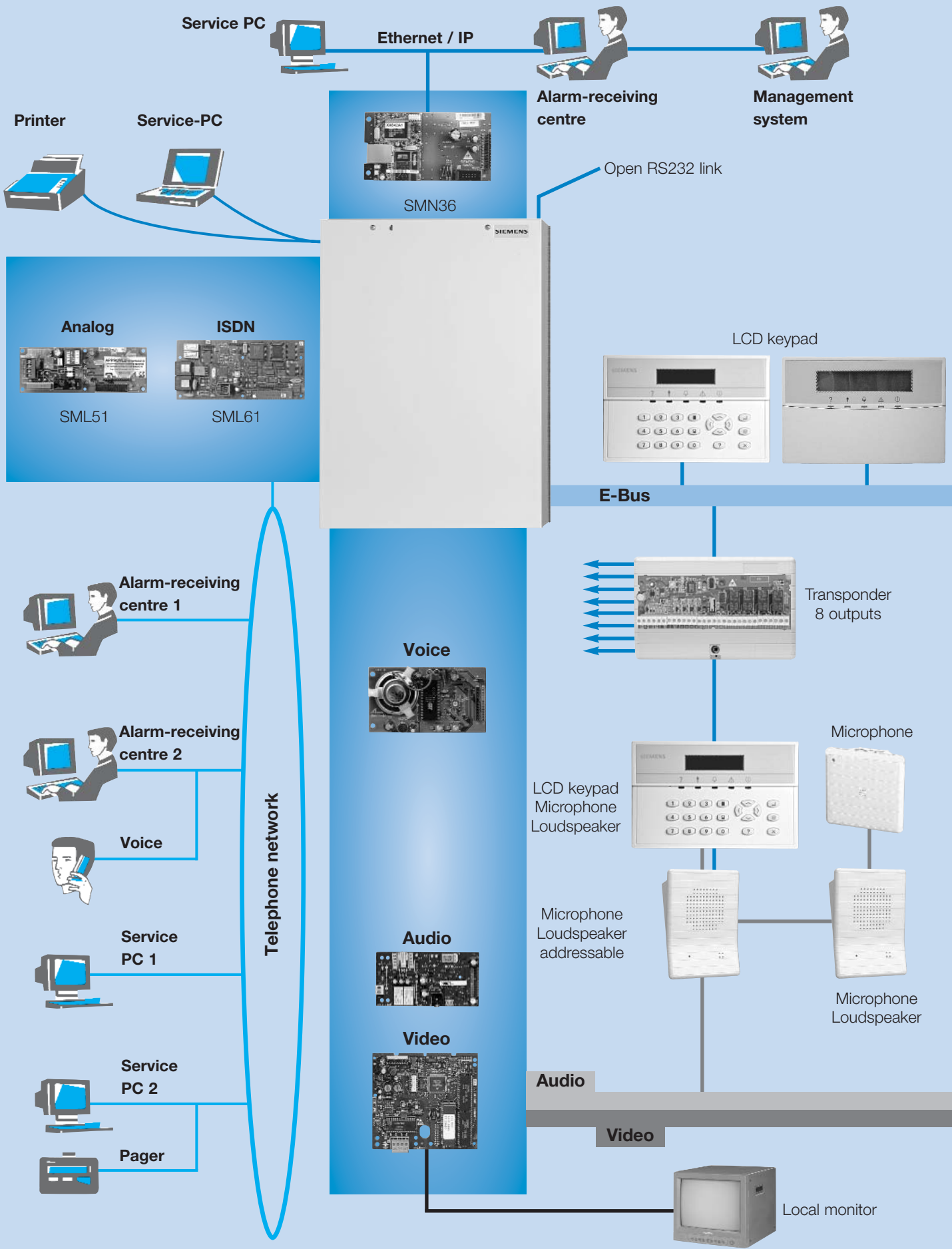
Supply voltage (typical)	230 VAC, ±10% / 50 Hz
Current consumption	max. 210 mA
Battery	12 V _{DC} / 17 Ah
Auxiliary power (nominal)	12 V _{DC} / 1.4 A
Number of on-board zones	8
Max. number of hardwired zones	48 (10 SAT12 or SMT12)
Max. number of wireless zones	36 det – 21 on/off (3 receiver)
Number of on-board open coll.	4, 12 V / 0.15 A
	1, 12 V / 1 A
Number of on-board relays	1 SPDT, 24 / 2 A
	1 DPDT, 24 / 2 A
	1 SPDT, 48 / 5 A
Max. number of outputs	49
Max. number of user codes	49
Number of partitions	6
Number of blocs per partition	6
Event memory	500 (user & engineer)
Number of keypads	max. 7
Time function	6 time schedule for auto set/unset per partition
Number of verification devices	max. 8
Video function	Local cyclical video / picture transmission
Telephone communicator	Optional SML51 (PSTN) or SML61 (ISDN) Digital and Speech transmission
Interfaces	1 RS232 for printer / PC
Operating temperature	-10 ~ +55 °C
Dimensions (H x W x D)	400 x 303 x 87.5 mm
Housing protection	IP30
Weight (without battery)	5.500 kg



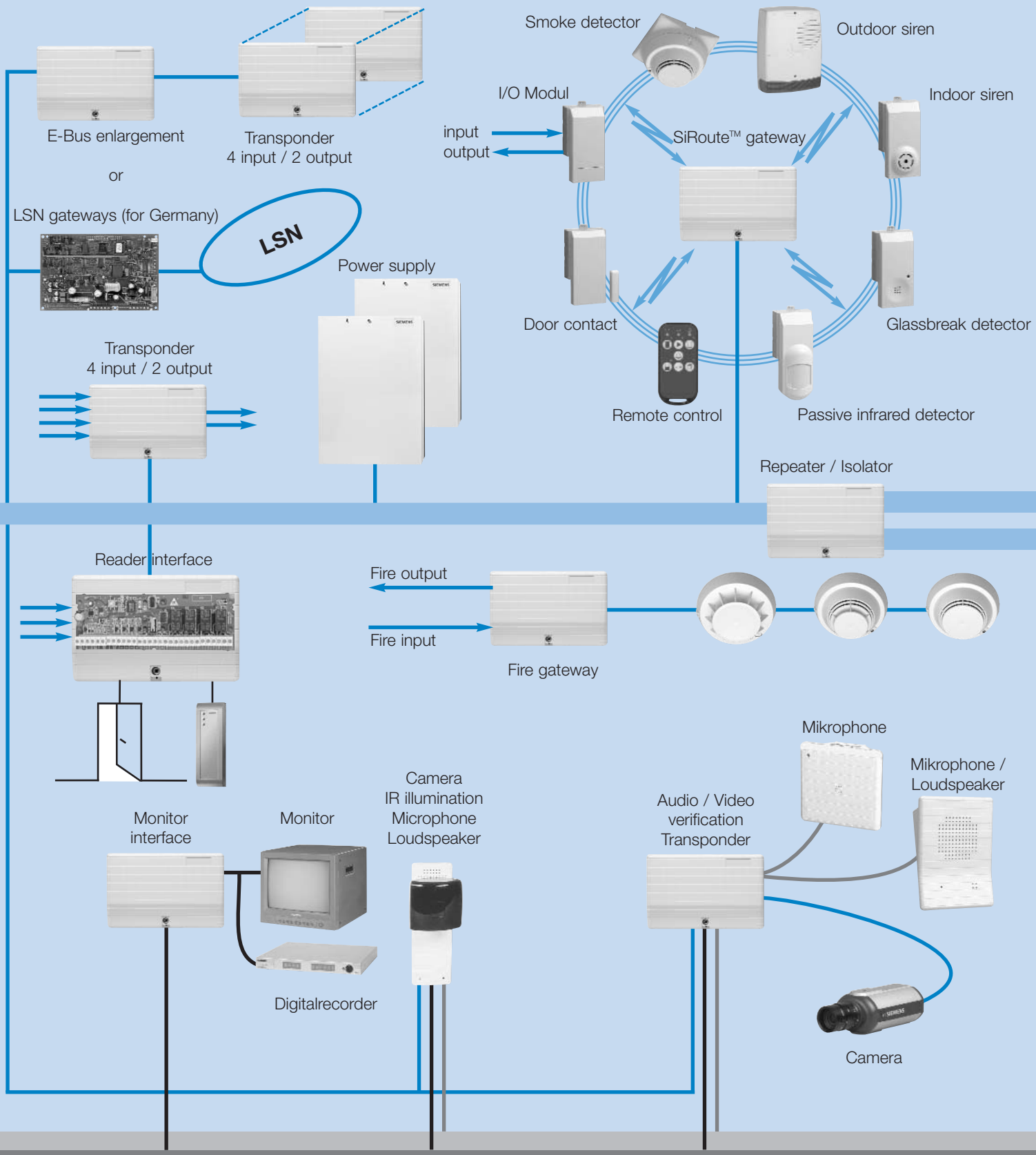
SI220CH	Sintony Control Panel 8-48 zones Switzerland SI220 Panel for Switzerland without software	8007510001
SLI220CHD	Panel software kit for Swiss German	8007530001
SLI220CHF	Panel software kit for Swiss French	8007540001
SLI220CHI	Panel software kit for Swiss Italian	8007520001
SI220CZ	Sintony Control Panel 8-48 zones Czech	8007220001
SI220F	Sintony Control Panel 8-48 zones French	8007250001
SI220F-NF	Sintony Control Panel 8-48 zones French NF	8005810001
SI220HU	Sintony Control Panel 8-48 zones Hungarian	8010010001
SI220I	Sintony Control Panel 8-48 zones Italian	8007260001
SI220PL	Sintony Control Panel 8-48 zones Polish	8007280001
SI220NL	Sintony Control Panel 8-48 zones Flemish	8007210001
SI221ES	Sintony Control Panel 8-48 zones Spanish	8007240001
SI220UK	Sintony Control Panel 8-48 zones English	A6E80115710



sintony 410 control panel



sintony 410 control panel



sintony 410 control panel

Type	Description / Technical data	Order No.	Datasheet No.
SI410	<p>Sintony Control Panel 16-464 zones</p> <p>Shopping centres, industrial complexes and administrative buildings impose demanding requirements on security systems. Made-to-measure solutions for these applications areas are possible with the Sintony 410 performance. With 500 users, up to 464 inputs, time and door controllers, the SI410 is a true super panel.</p> <p>Supply voltage (typical) 230 V_{AC}, ±10% / 50 Hz Current consumption max. 230 mA Battery 12 V_{DC} / 24 Ah Auxiliary power (nominal) 12 V_{DC} / 2.3 A Number of on-board zones 16 max. number of hardwired zones - conventional 464 (112 SAT12 or SMT12) 4 SAG91 required for full capacity Max. number of wireless zones 48 det – 28 on/off (4 receiver) Number of on-board open coll. 7, 12 V / 0.15 A 1, 12 V / 1 A Number of on-board relays 1 SPDT, 24 / 2 A 1 DPDT, 24 / 2 A 1 SPDT, 48 / 5 A Max. number of outputs 274 max. number of user codes 500 Number of partitions 16 Number of clusters (group of partitions) 4 Number of rooms per partition 8 Event memory 1500 (user & engineer) Number of keypads max. 32 Number of Cardreader max. 64 (using max. 32 cardreader gateways SMG71) Time function 20 calendars on 2 years for actions on inputs, partitions, outputs and user codes Number of verification devices max. 32 Video function Local cyclical video / picture transmission Macro language Give possibility to customise each installation through a specific programming able to link 64 inputs to 64 outputs (according to status of partitions, calendars, timers, inputs & outputs) Telephone communicator Optional SML51 (PSTN) or SML61 (IDSN) Digital and Speech transmission IP-Communication optional SMN36 enables communicate over IP Interfaces 2 RS232 for printer / PC Operating temperature -10 ~ +55 °C Dimensions (H x W x D) 500 x 365 x 133 mm Housing protection IP30 Weight (without battery) 8.600 kg</p>		
SI410CZ	Sintony Control Panel 16-464 zones Czech	8004740001	
SI410F	Sintony Control Panel 16-464 zones French	8001800001	
SI410F-NF	Sintony Control Panel 16-464 zones	8008400001	
SI410HU	Sintony Control Panel 16-464 zones Hungarian	8010020001	
SI410I	Sintony Control Panel 16-464 zones Italian	8004320001	
SI410PL	Sintony Control Panel 16-464 zones Polish	8002660001	
SI410NL	Sintony Control Panel 16-464 zones Flemish	8002560001	



sintony 410 control panel

Type	Description / Technical data	Order No.	Datasheet No.
SI411ES	Sintony Control Panel 16-464 zones Spanish SI410 Panel with Spanish software + Dialer	8008660001	
SI410UK	Sintony Control Panel 16-464 zones English	8008080001	
SI420	Sintony Control Panel 16-464 zones Same technical details as SI410 with following differences: Battery to be added 12 V _{DC} / 27 Ah max. Auxiliary power (nominal) 12 V _{DC} / 2.5 A Number of on-board zones 24 Weight (without battery) 10.200 kg	8007230001	
SI420D	Sintony Control Panel 16-464 zones German	8009470001	
SI420CH	Sintony Control Panel 16-464 zones Switzerland	8006790001	

SiRoute™

W7OP303

SiRoute™ smoke detector

The SiRoute™ optical smoke detector is based on light scattering by smoke particles. Designed for low power consumption it is powered by the batteries of the radio module. The smoke sensitivity is 2.5% / m. An LED indicates the alarm state in test mode.

Battery supply	from W7BT11
Battery lifetime	up to 4 years
Smoke sensitivity	2.5 %/m
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 44
Housing material	ABS
Radio module	W7BT11
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001898



W71R90

SiRoute™ PIR motion detector

The SiRoute™ PIR (passive infrared) motion detector is supplied with a 12 m wide-angle Fresnel lens as standard, which can be quickly replaced by an 18 m long-range lens (accessory). Easy installation in a corner is possible with the corner mounting bracket W7UM20 (accessory, 5 pcs. set). The detector has an LED, which indicates the alarm state in walk test mode. The sensitivity, high, low or remote (from the control panel) can be selected by jumper.

Battery supply	from W7BT10
Battery lifetime	up to 4 years
Detection range	12 m volumetric (standard) 18 m long range (accessory)
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 42
Housing material	ABS
Radio module	W7BT10
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001848



W7GB650

SiRoute™ acoustic glassbreak detector

In contrast to magnet contacts and vibration detectors, which must be mounted on all windows, the SiRoute™ acoustic glassbreak detector can monitor the windows of a whole room with a detection range up to 8 m. An LED indicates the alarm state in test mode. The sensitivity high (up to 8 m), low (up to 4 m) or remote (from the control panel) can be selected by jumper.

Battery supply	from W7BT10
Battery lifetime	up to 4 years
Detection range	up to 8 m radius
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 31
Housing material	ABS
Radio module	W7BT10
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001900



W7MK100**SiRoute™ door contact**

The SiRoute™ door contact has 3 reed contacts. This allows different positions of the housing for a great flexibility when installing the contact. The contact is designed for use on doors. One magnet is supplied with the contact. Spare contacts W7MK105 are available (5 pcs. set).

Battery supply	from W7BT10
Battery lifetime	up to 4 years
Detection type	magnetic contact
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 31
Housing material	ABS
Radio module	W7BT10
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001901**W7IO22****SiRoute™ input/output module 2/2**

The SiRoute™ input/output module 2/2 provides 2 inputs, which can be set with a jumper for either NO or NC operation. The device provides also 2 potential free outputs controlled by the radio module. The housing provides cable entries and strain relieves.

Battery supply	from W7BT10
Battery lifetime	up to 4 years
Specific data	2 inputs, NO/NC selectable by jumpers (default NO) 2 outputs, potential free contacts, max. 140 V _{DC} / 1 A / 30 W
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 42
Housing material	ABS
Radio module	W7BT10
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001903**W7SR10****SiRoute™ indoor siren**

The SiRoute™ indoor siren is very small but offers a high sound level of 80 dB at a distance of 3 m. It is powered by the radio module battery.

Battery supply	from W7BT10
Battery lifetime	up to 4 years
Sound level	80 dB @ 3 m
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 31
Housing material	ABS
Radio module	W7BT10
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001904

W7SR15**SiRoute™ outdoor siren**

The weatherproof SiRoute™ outdoor siren features its own battery power source and an integrated radio module. It provides a siren tone and a flashing warning light. Several settings are possible with jumpers. The siren can be activated with no time limit, during max 3 min or can be disabled. The strobe can follow the siren activation, can be activated separately or can be disabled.

Battery supply	4 x 1.5 V
Battery type	D (LR20)
Battery lifetime	up to 4 years
Sound level	100 dB @ 3 m
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 34
Housing material	PE / PC
Radio module	integrated
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00003953**W7RC10****SiRoute™ remote control**

The multifunctional remote control SiRoute™ is smaller than a credit card and only few mm thick, with indications by 3 LEDs. It has 7 keys for standard controls as well as emergency (panic alarm) functions. This handheld can be secured by programming a PIN code.

Battery supply	1 x 3 V Li
Battery type	CR2032
Battery lifetime	up to 5 years
Specific data	7 operation keys, 3 indication LEDs
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing protection (EN60529)	IP 55
Housing material	ABS / PC
Radio module	integrated
Transmission type	unidirectional
Transmission range	unlimited (EasyRouting)

A5Q00002974**W7BT10****SiRoute™ radio module standard**

The SiRoute™ radio modules W7BT10 and W7BT11 use the same bidirectional transceiver board. W7BT11 has only a different socket for round detectors (e.g. smoke detectors). W7BT10 and W7BT11 use the universal mounting base, which is part of the radio module package.

Battery supply	3 x 1.5 V
Battery type	AA (LR6)
Operating temperature	-10 ~ +55°C
Air humidity (EN 60721)	<95 % r.h., non-cond.
Housing material	ABS
Transmission type	bidirectional
Transmission range	unlimited (EasyRouting)

A5Q00001923**W7BT11****SiRoute™ radio module for round detectors**

Same as W7BT10 for technical details.

A5Q00002477

Type	Description / Technical data	Order No.	Datasheet No.
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W7EG10**SiRoute™ E-Bus Gateway**

The SiRoute™ E-Bus gateway W7EG10 can be connected via E-Bus to any Siemens control panel of the family Sintony. It can replace up to 3 transponders with each 4 inputs and 2 outputs. Up to 12 radio devices (detectors and actuators) and up to 7 radio remote controls can be addressed on one E-Bus gateway W7EG10. The housing contains an E-Bus interface board and the radio controller board.

A5Q00004409**W7MK105****SiRoute™ magnet for W7MK100 (5 pcs.)**

Spare/replacement part for W7MK100

A5Q00002782**W7UM10****SiRoute™ universal mounting base (10 pcs.)**

Spare/replacement part for W7BT10/11

A5Q00003601**W7UM20****SiRoute™ corner mounting bracket (5 pcs.)**

Accessory for W7BT10 typically used together with PIR motion detector W7IR90.

A5Q00003624**LLR12****SiRoute™ long range Fresnel lens (3 pcs.)**

Accessory for PIR motion detector W7IR90.

5029220001

keypads

SAK21**LED Keypad**

The LED keypad is an economically priced keypad. It is used wherever extra arm/disarm facilities are required.

Operating power (nominal) 12 Vdc via E-bus

Current consumption

– minimum 18 mA

– maximum 51 mA

Status LED's 3

Housing protection IP30

Operating temperature -10 ~ +55 °C

Dimensions (H x W x D) 125 x 77 x 36 mm

Weight 0.240 kg

A6E80117410**SAK41****LCD Keypad with door**

The keys and the alphanumeric display on the LCD keypad are illuminated to ensure simple and reliable operation. Five status LED's provide valuable system information. The SAK41 is equipped with a flap.

Operating power (nominal) 12 Vdc via E-bus

Current consumption

– minimum 13 mA

– maximum 73 mA

Special function keys 6

Status LED's 5

LCD-display

– number of characters 2 x 16

Operating temperature -10 ~ +55°C

Housing protection IP30

Dimensions (H x W x D) 172 x 106 x 30

Weight 0.240 kg

8006590001

SAK51**LCD Keypad**

The keys and the alphanumeric display on the LCD keypad are illuminated to ensure simple and reliable operation. Six status LED's provide valuable system information.

Operating power (nominal)	12 Vdc via E-bus
Current consumption	
– minimum	13 mA
– maximum	73 mA
Special function keys	6
Status LED's	6
LCD-display	
– number of characters	2 x 16
Operating temperature	-10 ~ +55 °C
Housing protection	IP30
Dimensions (H x W x D)	172 x 106 x 36 mm
Weight	0.260 kg

8006630001**SAK52****LCD Keypad with loudspeaker and microphone**

Same technical details as SAK51, but with following differences:

microphone / loudspeaker	built-in for alarm verification
Power consumption	
– minimum	18 mA
– maximum	114 mA

8006930001**SAK53****LCD keypad with flap and big display**

The keys and the alphanumeric display on this LCD keypad are illuminated to ensure simple and reliable operation. Six status LED's provide valuable system information. The SAK53 is equipped with a flap and a big LCD display.

Operating power (nominal)	12 Vdc via E-bus
Current consumption	
– minimum	23.2 mA
– maximum	120 mA
Special function keys	6
Status LED's	6
LCD-display	
– number of characters	2 x 16
Operating temperature	-10 ~ +55 °C
Housing protection	IP30
Dimensions (H x W x D)	110 x 170 x 32
Weight	0.250 kg

8006940001

Type	Description / Technical data	Order No.	Datasheet No.
	keypad language kits		
SLK41D	Language kit for SAK41 German Same as SLK41UK but texts in German	8002610001	
SLK21D	Language kit for SLK21 German	8000910001	
SLK21F	Language kit for SLK21 French	8009630001	
SLK51/52D	Language kit for SAK51/52 German	A6E80113620	
SLK53D	Language kit for SAK53 German	8011140001	
SLK 51/52F	Language kit for SAK51/52 French	A6E80112420	
SLK53F	Language kit for SAK53 French	8011150001	

communication boards

SML51TBR**Dialer board PSTN****8003480001**

The SML51TBR connects any Sintony panel to the telephone network. It transmits alarms and other events to digital alarm-receiving centres and/or PCs. The SML51 also enables remote programming, remote control and transmission to a pager. When used in conjunction with the SMV11 voice module, individual voice messages can be transmitted to any desired location. The dialer is approved according to TBR21 specs.

Power supply	230 V via control unit
Current consumption	
– minimum	4 mA
– maximum	82 mA
Operating temperature	-10 ~ +55°C

**SML51PL****Communicator, Polish PTT specs****8003210001**

Same technical details as SML51TBR but approved according to Polish PTT specs.

SML61**Dialer board ISDN****8003970001**

The SML61 connects any Sintony panel to the ISDN communication network. It has the same performance spectrum as the SML51.

Supply	230 V via control unit
Power consumption	
– minimum	4 mA
– maximum	82 mA
Operating temperature	-10 ~ +55°C

**SMN36****IP-Interface Module****A6E80117810**

The SMN36 enhances the SI410 with IP-networking capability. Two ports with 10 different protocols allow to run various combinations of applications at the same time (eg. Sylcom maintenance tool and Graviss monitoring software).



optional modules and accessories

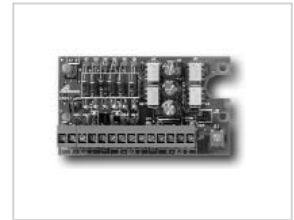
SAT12**Transponder in housing****8006150001**

The transponder (in a housing) can be used to extend the central control unit by adding 4 inputs and 2 outputs ("open collector", 0.15 A).

Power supply	Via E-bus
Power consumption	
– minimum	6 mA
– maximum	19 mA
Operating temperature	-10 ~ +55°C
Housing	ABS
Housing protection	IP30
Dimensions (H x W x D)	86 x 135 x 27 mm

**SMT12****Transponder board only****8006160001**

Same technical details as SAT12 isolator but board only.

**SMT44****8 outputs transponder board only****8006730001**

This device is to be used to extend the control panel unit by adding 8 outputs.

Power supply	Via E-bus
Power consumption	
– minimum	42 mA
– maximum	66 mA
Output types	
– 4 open collectors	12 V _{DC} / 150 mA
– 4 relays	24 V _{DC} / 2 A
Operating temperature	-10 ~ +55°C
Housing protection	IP30
Dimensions (H x W x D)	55 x 165 x 20 mm
Weight	0.250 kg
Plastichousing SAH24 as option.	

SAR11**Isolator/repeater E-bus in housing****8000990001**

The SAR11 isolator (in a housing) is used to divide the E-bus into two branches which are decoupled from each other, thus ensuring that faults in one branch do not influence the other E-bus branch. In addition, the E-bus signals are amplified so that the E-bus can be extended by 500 m.

Power supply	Via E-bus
Power consumption	
– minimum	15 mA
– maximum	35 mA
Operating temperature	-10 ~ +55°C
Housing	ABS
Housing protection	IP30
Dimensions (H x W x D)	86 x 135 x 27 mm

**SMR11****Isolator/repeater E-bus board only****8001090001**

Same technical details as SAR11 isolator but board only.

SMR13 VDS**Isolator/repeater E-bus board only****8003900001**

Same technical details as SMR11 but VDS approved and equipped with 3 E-bus branches (instead of 2).

SMV11**Voice module**

The SMV11 is a module which can be plugged into the control panel's printed circuit board. The SMV11 can record up to 6 alarm messages, 1 identification message and 4 help messages with the aid of a built-in microphone. These messages are then transmitted to the desired person through the SML51 or SML61 communicators.

Power supply from main circuit board

Power consumption

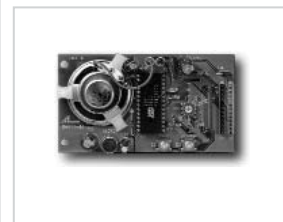
– quiescent state 3 mA

– active 25 mA

Operating temperature -10 ~ +55°C

Dimensions (H x W x D) 60 x 106 x 25 mm

Weight 0.060 kg

8000440001**SML21****PSTN line supervision module**

This optional module has been designed for SI210 and SI410/420 to allow permanent voltage and current monitoring of the PSTN telephone line.

8000530001**SMX13****Relay module**

The SMX13 has 2 potential-free relays with a change-over contact.

Relay outputs 2

– electrical characteristics max. 24 Vdc / 2 A

– type SPDT (change-over)

Operating temperature -10 ~ +55°C

Dimensions (H x W x D) 15 x 60 x 38 mm

Weight 0.030 kg

8009180001**SMX23****Battery supervision module for SI110**

This optional module is only applicable for country versions which have this control panel option enabled.

Test interval for battery

supervision 1 minute

Dimensions (H x W x D) 15 x 60 x 38 mm

Weight 0.030 kg

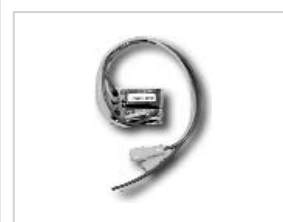
8003400001**SMX26****Low battery cut-off module**

This optional module can be used on all Sintony control panels and enables a low battery cut-off feature.

Battery cut off level 9,5 Vdc

Dimensions (H x W x D) 15 x 60 x 38 mm

Weight 0.030 kg

8000330001**SAQ11****PC/printer cable**

This is used to connect the central control unit to the RS232 interface of a printer or PC.

8001960001

SAQ18**X25 cable**

This cable is used to connect the control unit to an X25 gateway in order to communicate on the X25 network.
This cable is also used to connect the panel unit to a PC in order to communicate through the serial port (bidirectional link).

8006410001**SAP08****Power supply in housing 12 Vdc / 800 mA**

The power unit provides 12 Vdc / 800 mA to supply the E-bus as well as the 4 separately fused 12 Vdc outputs. The battery, mains and fuses are monitored. A failure is signaled to the control panel via the E-bus. A programmable 48 V / 5 A relay output is also available. The housing provides room for 4 SMT11/SMR11 boards with either one 7.2 Ah battery and 2 relay boards, or with one 17 Ah battery.

Mains	230 V / 50Hz
Current consumption(230 V)	160 mA
Mains fuse	500 mA slow
Output voltage	12 Vdc / 0.8 A
– max. ripple at 0.8 A	60 m Vpp
Relay contact, single pole	48 V / 5 A
Battery (optional)	max. 12 V / 17 Ah
Operating temperature	-10 ~ +40°C
Housing material	painted steel, 1.5 mm thick
Housing protection	IP30
Dimensions (H x W x D)	400 x 303 x 87.5 mm
Weight (without battery)	5.200 kg

8006170001

SAP14**Power supply in housing 12 V_{DC} / 1.3 A****8003160001**

The power unit provides 12 V_{DC} / 1.3 A to supply the E-bus as well as the 4 separately fused 12 V_{DC} outputs. The battery, mains and fuses are monitored. A failure is signaled to the control panel via the E-bus.

A programmable 48 V / 5 A relay output is also available. The housing provides room for 4 SMT11/SMR11 boards with either one 7.2 Ah battery and 2 relay boards, or with one 17 Ah battery.

Mains	230 V / 50Hz
Current consumption (230 V)	160 mA
Mains fuse	500 mA slow
Output voltage	12 V _{DC} / 1.3 A
- max. ripple at 0.8 A	60 m V _{pp}
Relay contact, single pole	48 V / 5 A
Battery (optional)	max. 12 V / 17 Ah
Operating temperature	-10 ~ +40°C
Housing material	painted steel, 1.5 mm thick
Housing protection	IP30
Dimensions (H x W x D)	400 x 303 x 87.5 mm
Weight (without battery)	5.400 kg

SAP20**Power supply in housing 12 V_{DC} / 2.3 A****8006880001**

The power unit SAP20 provides 12 V_{DC} / 2.3 A to supply the E-bus as well as the 4 separately fused 12 V_{DC} outputs. A programmable 48 V, 5 A changeover relay is also available. The power supply, battery and fuses are monitored. A failure is signaled to the control panel via the E-bus. The housing provides space for a 12 V / 27 Ah battery and 4 SMT11 / SMR11 boards and 2 SMX13 modules.

Mains	230 V / 50Hz
Current consumption (230 V)	230 mA
Mains fuse	500 mA slow
Output voltage	12 V _{DC} / 2.3 A
- max. ripple at 2.3 A	60 m V _{pp}
Relay contact, SPDT	48 V / 5 A
Battery (optional)	max. 12 V / 27 Ah
Operating temperature	-10 ~ + 40°C
Housing material	painted steel, 1.5 mm thick
Housing protection	IP30
Dimensions (h x w x d)	500 x 365 x 133 mm
Weight (without battery)	8.400 kg

SAP25**Power supply in housing 12 Vdc / 2.5A****8002930001**

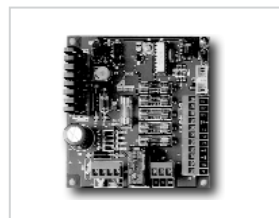
The power unit SAP25 provides 12 Vdc / 2.5 A to supply the E-bus as well as the 4 separately fused 12 Vdc outputs. 8 additional inputs and 5 programmable outputs are also available. The housing provides space for a 12 V / 27 Ah battery and 4 SMT11 / SMR11 boards and 2 SMX13 modules.

Mains	230 V / 50Hz
Current consumption(230 V)	TBD
Mains fuse	TBD
Output voltage	12 Vdc / 2.5 A
- max. ripple at 2.3 A	60 m Vpp
Relay contact, SPDT	48 V / 5 A
Open collector output	12 V / 100 mA
3 supervised relay contacts	12 V / 1 A
Programmable inputs	8
- EOL resistor	4.7 kOhm
Battery (optional)	12 Vdc / 27 Ah
Operating temperature	-10°C ~+50°C
Housing material	painted steel, 1.5 mm thick
Housing protection	IP30
Dimensions (H x W x D)	553 x 400 x 133 mm
Weight (without battery)	9.900 kg
For Germany and Switzerland only	

Type	Description / Technical data	Order No.	Datasheet No.
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control panel spare parts

SM110	Main board SI110 without Eprom	8006960001
SM120	Main board SI120 without Eprom	8008340001
SM210	Main board SI210 without Eprom	8007030001
SM220	Main board SI220 without Eprom	8008430001
SM410	Main board SI410 without Eprom	8007040001
SM110D	PCB for SI110 with Eprom Germany	8000470001
SM210D	PCB for SI210 with Eprom Germany	8000290001
SM410D	PCB for SI410 with Eprom Germany	8005290001
SM410F	PCB for SI410 with Eprom France	8005140001
SM320DE	PCB for SI320D with Eprom Germany	A6E80118620
SMP08	Power supply board 12 Vdc / 800 mA Same technical details as SAP08, but board only.	8003610001
SMP14	Power supply board 12 Vdc / 1.3 A Same technical details as SAP14, but board only.	8002640001
SMP20	Power supply board 12 Vdc / 2 A Same technical details as SAP20, but board only.	8006750001
SMP25	Power supply board 12 Vdc / 2.5 A Same technical details as SAP25, but board only.	8002800001



SAH11	Housing for Sintony 100 Painted steel 1.5 mm Room for battery max. 7,2 Ah Dimensions (H x W x D) 331 x 265 x 33 mm	8009760001
SAH12	Housing for Sintony 200 Painted steel 1.5 mm Room for battery max. 17 Ah Dimensions (H x W x D) 400 x 303 x 87.5 mm	8001670001
SAH14	Housing for SMT12 and SMR11 Housing ABS Housing protection IP30 Dimensions 86 x 135 x 27	8001410001
SAH17	Housing for Sintony 400 max. 27 Ah Painted steel 1.5 mm Room for battery max. 27 Ah Dimensions (H x W x D) 500 x 365 x 133 mm	8003260001
SAH24	Housing for Transponder- and Gateway PCB's The SAH24 provides space for 2pcs. PCB with dimension 91 x 55 mm (eg. SMT12) or 1 PCB with dimension 156 x 55 mm (eg. SMG 71 or SMT44). Housing: ABS Dimensions: 210 x 127 x 35 mm	8004370001
SMU21	Transformer 20 V / 0.8 A Spare part for Sintony 100/210 panels and SAP 08.	8003740001
SMU22	Transformer 19 V / 1.5 A Spare part for Sintony 220 panels and SAP 14	8010240001
SMU31	Transformer 20 V / 2.5 A Spare part for Sintony 300/400 panels and SAP 20 / 25	8003870001
SMY11	Spacer Spare part for metallic housings. Set of 10 spacers.	8003450001



E-bus components for SI400

SAG91

E-Bus Concentrator

8006410001

This E-Bus Gateway is used to expand the number of conventional inputs on a SI410 panel. A panel can manage 4 SAG91 and each SAG91 allow the connexion of 20 inputs transponders SAT12 or SMT12.

Supply	Via E-Bus
Current consumption	
- minimum	6 mA
- maximum	19 mA
Operating temperature	-10 ~ +55 °C
Housing protection	IP30
Dimensions (H x W x D)	86 x 135 x 27 mm
Weight	0.130 kg

SMG71

Card reader E-Bus interface

8006600001

This interface allows door control features on Si 410. Each interface can manage 2 card readers and provides 4 inputs and 2 outputs. Can be used linked with SI410 or on a full autonomous mode. 32 SMG71 can be connected to a SI410.

Plsatic housing SAM 24 as option.

Supply	Via E-Bus
Current consumption	
- minimum	11 mA
- maximum	35 mA
Card readers protocols accepted	Wiegand and ABA Track 2
Number of card readers per interface	2 max.
Operating temperature	-10 ~ +55 °C
Housing protection	IP30
Dimensions (H x W x D)	85 x 156 x 20 mm
Weight	0.130 kg



alarm verification

WMA11**Plug-on audio module**

The WMA11 audio module is plugged on the Sintony main board. The audio module contains inputs (outputs for the audio bus). In addition, a pocket for a headset and a button to switch the verification modules in test mode are provided.

Supply	from main circuit board
Power consumption	
– quiescent state	10 mA
– activated	100 mA
Operating temperature	-10~ +55 °C
Dimensions (H x W x D)	60 x 113 x 20 mm
Weight	0.055 kg

8000310001**WMV12****Plug-on video module**

The WMV12 video module is plugged on to the Sintony main board. The video module contains an input for the video bus and an output for connecting a monitor. A button enables the cameras to be switched in test mode. In the event of an alarm, 6 pictures from the camera assigned to the alarm are digitised at 1 second intervals and transmitted to the CMS together with the relevant alarm report. Note: the CMS has to be equipped with hardware and software in order to be able to receive the video pictures (see Medialine and Witsmart products, mentioned underneath).

Supply	via main board or transmitter module
Current consumption	
– in quiescent state	8 mA
– in alarm	160 mA
Operating temperature	-10 ~ +40 °C
Housing material	ABS
Dimensions (H x W x D)	118 x 130 x 20 mm
Weight	0.120 kg

8000040010**WAC11****Two-way audio unit loudspeaker and microphone**

The WAC11 is a combined microphone and speaker which can be connected either to a WAC12 or directly to the WMA11 audio module. The WAC11 has an LED which indicates recording mode by illuminating whilst the microphone is activated. This indication can be switched off. The WAC 11 uses the same housing as the WAC12.

Supply	via audio of WAC12
Power consumption	
– maximum	7 mA
Operating temperature	-10 ~ +55°C
Housing	ABS
Housing protection	IP30
Dimensions (H x W x D)	145 x 105 x 70 mm

8000110001**WAC12****Addressable two-way audio unit loudspeaker and microphone**

The WAC12 is a combined microphone/speaker controlled via the E-bus. It amplifies the signals present on the audio bus and outputs these through the speaker. The sounds received from the microphone are amplified and output on the audio bus.

Supply	via E-bus
Power consumption	
- minimum	5 mA
- maximum	24 mA
Operating temperature	-10 ~ +55°C
Housing	ABS
Housing protection	IP30
Dimensions (H x W x D)	145 x 105 x 70 mm

8007720001

WAC22**Camera/speaker/microphone unit**

The WAC22 is a combination of a camera, microphone and speaker which is connected to the audio and video bus. The E-bus controls the WAC22 and provides it with power.

Supply	via E-bus
Power consumption (via E-bus)	
- minimum	15 mA
- maximum	1000 mA
Address selection	programmable
Connections	
- E-bus	2 pairs
- Audio	1 pair
- Video	1 pair
Supply for camera and IR diodes	NiCd battery charged via E-bus
Loudspeaker	2 W
Listen-in	indicated via LED
Camera	LCD 1/3"; 0,5 Lux; 300000 pixels
Camera lens	3.8 mm
IR lighting	12 diodes
Operating temperature	-10 ~ +40°C
Housing	ABS
Housing protection	IP30
Dimensions (H x W x D)	215 x 80 x 150 mm

8004680001**WAS11****Microphone unit**

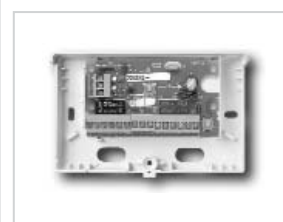
The WAS11 microphone can be connected either to an addressable WAC12 audio unit or directly to the WMA11 audio module. The WAS11 has a controller for setting the sensitivity. The housing of the WAS11, which is tamper-monitor, is suitable for either corner or flat-wall mounting

Power supply	via audio
Current consumption	
- quiescent state	0 mA
- active	3 mA
Operating temperature	-10 ~ +55°C
Housing	ABS
Housing protection	IP30
Dimensions (H x W x D)	75 x 75 x 35 mm
Weight	0.073 kg

8005230001**WAT21****E-bus camera interface**

The WAT21 enables a third party video camera to be interfaced to the Sintony video bus.

Supply	via E-bus
Power consumption	
- min.	12 mA
- max. 107 mA	
Inputs	
- video	1 Vpp for camera
- audio	to connect WAC11 / WAS11
Outputs	
- video	1 Vpp for monitor
- open collector	12 V / 150 mA active LOW 40 Ohm series resistor
Tamper protection	NC contact
Bus connection for	E-bus, Audio bus, Video bus
Operating temperature	-10 ~ +55 °C
Housing material	ABS
Housing protection class	IP30
Dimensions (H x W x D)	86 x 35 x 27 mm
Weight	0.260 kg

8002150001

WAV61**Monitor interface**

The WAV61 monitor interface enables a monitor or VCR to be connected to the video bus. It is used when a Sintony control panel with WAC E-bus cameras or WAT21 camera interfaces are used to set up a local CCTV system.

Power supply	12 V _{DC}
Power consumption, typical	23 mA
Tamper protection	NC contact
Outputs	
- video	1 V _{pp} for monitor / VCR
- bus connection for	videobus
Operating temperature	-10 ~ +55 °C
Housing material	ABS
Housing protection class	IP30
Dimensions (H x W x D)	86 x 135 27 mm
Weight	0.260 kg

8003430001

up-/ download software

SAS31

Sylcom windows software - all languages

The Sylcom is a windows program for PCs which can be used to program or operate the Sintony central control units. The engineer can use Sylcom on site with a SAQ11 printer cable; remote use via the telephone network is also possible in conjunction with a modem.

8006950001



ML3000IT**Medialine receiver main rack**

The Medialine main rack is equipped with a power supply, a management module and 4 slots which can hold any telecom module suitable for PSTN, EuroISDN, X25, IP or other networks.

Power supply	230 VAC, 50 Hz backed up by 12 V battery (optional)
Output power	13.7 Vdc, 4 A
Rack 19"	3 HU, depth 365 mm including saved timer
Management module	including saved timer
Telecom modules	4 slots per rack
Max. configuration	64 telecom modules (via ML3000S)
Printer port	Centronics parallel port
Alarm transmission formats	supports SIA (level 1 and 2), Ademco contact ID, Sériee, Stratel, Cesa 200 bds, Elpro 200 bds, Scantronic, Telenot, Telectronic
Output protocol	TST Log, FST Log, MLR2 (to interface with CMS operating software)

8004600010**ML3000ITS****Medialine receiver slave rack**

The Medialine slave rack with four slots can be connected to the ML3000 in order to expand the capacity to 8 telecom modules. The ML3000S can optionally be equipped with a ML840 power supply.

19" rack	3 HU, depth: 365 mm
extension slots	4 slots for telecom modules
option	ML840 power supply as back up

8004600010**ML551****Operator console**

The operator console facilitates a safe and easy alarm verifications by listening to the supervised premises on activation of the alarm followed immediately by remote image capture.

Keyboard	20 keys
Display	large LCD format; 2 x 16 characters
Functional Led's	5
Loudspeaker	4 W, switch and volume control
Inputs/outputs	for a CE FT or CEM FT headset Witsmart audio connection
Optional	MFT electret microphone
Accessories	CEM FT and CE FT

5630420001**MFT****Microphone for console**

The MFT is an optional electret microphone on a flexible support for the ML551.

5630550001**ML113IT****PSTN telecom module (Europe)**

Telecom module for PSTN lines (TBR21 approved). Max. 4 modules can be installed per receiver rack.

8003700010



medialine equipment

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ML114IT	ISDN telecom module	8003600010
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Telecom module for Euro ISDN lines (SO connection). Max. 2 modules can be installed per receiver rack.

ML840IT	Power supply	8005000010
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Optional power supply / battery charger for ML3000 slave receiver rack.
 Power supply 230 VAC, 50 Hz
 backed up by 12 V battery (optional)
 Output power 13.7 VDC, 4 A

STAR ML	Printer for Medialine	5630970001
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Printer with battery back-up.
 Stand-by time > 12 hrs in printing mode
 Paper Listing paper, 40 columns
 Container for 1000 sheets
 Printing speed 100 characters/sec.
 Interface Centronics parallel interface

WT600	Arcnet board for PC	8007620010
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The WT600 allows the connection of ML3000 to a Witsmart operator station (PC). For maximum security, each FT600 has 2 Arcnet connections.
 Connection RJ connector

Witsmart

MANAG WT	Software for management station Witsmart	8008420010
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OPER WT	Software for operator station Witsmart	8008410010
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AB1201-2**Battery 12 V / 1.2 Ah**

Maintenance free lead sealed acid batteries. Low rate of self-discharge. Position independent operation. Low internal resistance. High long-term stability. High ampere-hour capacity

Supply	12 V / 1.2 Ah
Dimensions (W x H x D)	97 x 51 x 48 mm
Weight	0.580 kg

5075290001**AB1202-0****Battery 12 V / 2 Ah**

As above for technical details with the following difference

Packing unit	1 piece per carton
Supply	12 V / 2.0 Ah
Dimensions (W x H x D)	178 x 60 x 34 mm
Weight	0.890 kg

2254900001**AB1207-2****Battery 12 V / 7.2 Ah**

As above for technical details with the following difference

Packing unit	1 piece per carton
Supply	12 V / 7.2 Ah
Dimensions (W x H x D)	151 x 94 x 65 mm
Weight	2.600 kg

2522560001**AB1212-0****Battery 12 V / 12 Ah**

As above for technical details with the following difference

Packing unit	1 piece per carton
Supply	12 V / 12.0 Ah
Dimensions (W x H x D)	151 x 94 x 98 mm
Weight	4.200 kg

4843250001**AB1215-0****Battery 12 V / 15 Ah**

As above for technical details with the following difference

Packing unit	1 piece per carton
Supply	12 V / 15.0 Ah
Dimensions (W x H x D)	181 x 167 x 76 mm
Weight	5.800 kg

4755700001**AB1227-0****Battery 12 V / 27 Ah**

As above for technical details with the following difference

Packing unit	1 piece per carton
Supply	12 V / 27.0 Ah
Dimensions (W x H x D)	175 x 125 x 166 mm
Weight	8.600 kg

2254870001

Type

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AB1242-0**Battery 12 V / 42 Ah**

As above for technical details with the following difference

Packing unit	1 piece per carton
Supply	12 V / 42.0 Ah
Dimensions (W x H x D)	196 x 174 x 163 mm
Weight	13.000 kg

4629360001



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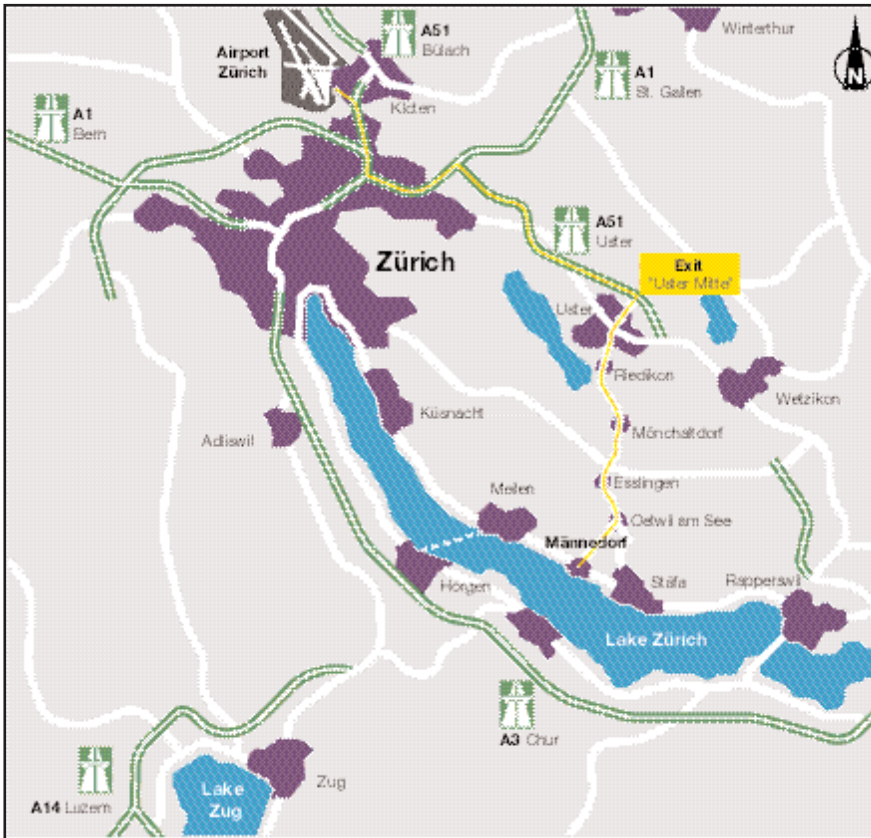
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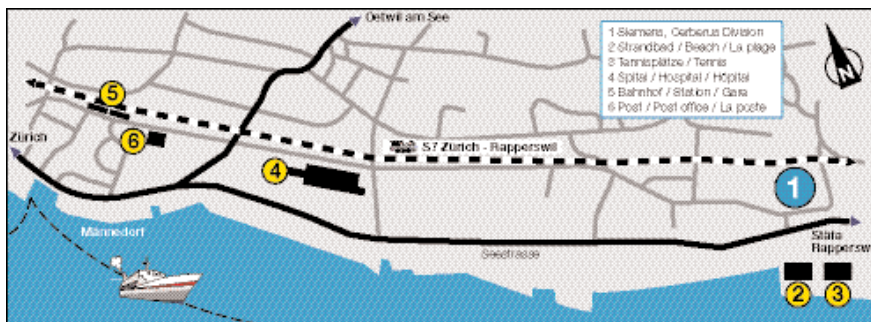


by car

A53, Exit Uster Nord
 go right, continue to:
 - Mönchaldorf
 - Esslingen
 - Oetwil am See
 - Männedorf
 Seestrasse direction Stäfa

by train / bus

Airport - Zürich HB
 -any train
 HB Zürich - Männedorf
 - train S7 to Männedorf
 continue to:
 Alte Landstrasse 411





general terms & conditions

Type	Description / Technical data	Order No.	Datasheet No.
1.	General Conditions	4.4	Claims of the Purchaser for compensation which exceed the limits specified in Clause 4.3 shall be excluded in all cases of delayed delivery. This shall also apply after expiry of a period granted to the Supplier for delivery of the Supplies. Purchaser shall only be entitled to terminate the Contract for delay provided an adequate extension of time granted to the Supplier as not resulted in delivery, the limit specified in Clause 4.3 has been reached and the Supplier has not voluntarily paid liquidated damages pursuant to Clause 4.3 in excess of the aggregate limit specified in Clause 4.3 above within ten (10) business days after receipt of a notice of termination issued by Purchaser.
1.1	The supplies or services (hereinafter called scope, quality and all terms and condition of "Supplies") shall be exclusively defined by the written declarations of both parties and by the written provisions of these condition (hereinafter called "Contract"). General terms and condition of the Purchaser shall apply only where expressly accepted in writing by Supplier. The Contract shall be deemed to have been concluded upon receipt of Supplier's written acknowledgment stating its acceptance of the order.	4.5	Any further rights and remedies of the Purchaser than those as per this Section 4 based on a delay, in particular Purchaser's right to claim damages, shall be excluded.
1.2	For cost estimates, drawings and other documents (hereinafter called "Documents"), the Supplier reserves all rights, title and interest in all intellectual property rights including but not limited to copyright in the Documents. Such Documents may not be made available to third parties without the prior consent of the Supplier and they shall, upon request, be immediately returned to the Supplier if he is not awarded the Contract. Sentences 1 and 2 shall apply vice versa to Purchaser's Documents; however, these may be made available by the Supplier to his sub-contractors and sub-suppliers.	4.6	If dispatch or delivery is delayed at Purchaser's request by more than one month after notice was given of the readiness for dispatch by the Supplier, the Purchaser may be charged storage costs for each month thereafter up to the amount of 0.5 % of the Contract price of the Supplies but in no event shall the aggregate storage charges exceed a total of 10 % of the total Contract price.
1.3	The Supplier shall be entitled to provide partial Supplies.	4.7	In the event the Purchaser suspends the provision of the Supplies the Purchaser shall reimburse the Supplier all additional cost and expense incurred due to such suspension.
1.4	The obligation to deliver the Supplies shall be subject to the condition that the required export licenses are issued and that no other restrictions exist, arising from German, Swiss, European, United States of America or any other export control regulations, which are to be observed.	5.	Transfer of Risk
2.	Prices and Terms of Payment		If the dispatch, the delivery, the beginning or completion of assembly or erection, the taking over of Purchaser's own service or the trial run is delayed for reasons within the Purchaser's responsibility, or if the Purchaser has failed for other reasons to accept delivery, the risk of loss shall pass to the Purchaser on the date when it would have passed but for such failure of Customer.
2.1	Prices shall be ex works (Incoterms 2000) excluding packing and any and all taxes, duties or imposts payable under applicable law. Purchaser agrees to pay or reimburse Supplier for any such taxes, duties or imposts which Supplier or his subcontractors or sub-suppliers are required to pay.	6.	Assembly and Installation
2.2	If the Supplier has undertaken the assembly or erection, the Purchaser shall bear all required incidental costs in addition to the agreed Contract price unless otherwise agreed.		Unless otherwise agreed in writing, assembly and installation shall be subject to the following provisions:
2.3	Payments shall be made free to the bank account or payment office notified by the Supplier.	6.1	The Purchaser shall provide at his own expense and in a timely manner:
2.4	The Purchaser may set off only those claims that are undisputed or have been finally determined in a legally binding manner.	a)	all earth-moving and construction work and other ancillary services not specific to the Supplier's trade as well as the necessary skilled and unskilled labor, materials and tools,
2.5	Unless provided otherwise in writing between the parties, the invoices shall be settled by means of pre-payment or irrevocable letter of credit confirmed by a Swiss Bank.	b)	the equipment and materials necessary for assembly, installation and commissioning such as scaffolding, lifting equipment etc., fuels and lubricants,
3.	Retention of Title	c)	energy and water at the point of use, including connections, heating and lighting,
3.1	Title to the Supplies shall remain with Supplier until each and every claim against the Purchaser to which the Supplier is entitled under this business relationship has been duly satisfied. Upon entering into the Contract, the Purchaser authorizes the Supplier to enter or notify reservation of title in the required form in public registers, books or similar records, all in accordance with relevant national laws, and to fulfill all corresponding formalities, at Purchaser's costs.	d)	suitable, dry and lockable rooms of sufficient size at the site for the storage of machine parts, apparatus, materials, tools etc. and adequate working and recreation rooms for the assembly personnel including appropriate sanitary facilities. Furthermore, the Purchaser shall take all measures he would take for the protection of his own property to safeguard the property of the Supplier and of the assembly personnel,
3.2	For the duration of the retention of title, the Purchaser shall be prohibited from giving the Supplies in pledge or as security, and resale shall be permissible only in the ordinary course of business and subject to the condition that the Purchaser either receives payment from its customer or retains title so that the property is transferred to the Purchaser's customer only after fulfillment of his obligation to pay.	e)	protective clothing and protective devices which are needed because of particular condition on the site.
3.3	In case of seizure of the Supplies or similar acts or interventions by third parties which may result in the Supplier losing title to the Supplies, the Purchaser shall inform the Supplier immediately thereof in writing.	6.2	Before the start of assembly or installation, the Purchaser shall make available at his own cost and expense all necessary information concerning the location of concealed electric power, gas and water lines or of similar installations as well as all required data concerning static and sub-surface condition of the site.
3.4	In cases of fundamental non-performance of contractual obligations by the Purchaser, especially a delay in payment, the Supplier shall be entitled to take back the Supplies. The Purchaser shall be obliged to return the Supplies. The taking back, the assertion of the retention of title or the seizure of the Supplies by the Supplier shall not mean termination of the Contract and restitution, unless expressly stated by the Supplier.	6.3	Before the beginning of assembly or installation, the Purchaser shall provide all necessary materials and equipment to start work at the site and carry out all preparations to such a point that the assembly or installation can be started as agreed and carried out without interruption. Access roads and the site shall be paved and clear.
4.	Time for Delivery and Delay	6.4	If the assembly, installation or commissioning is delayed by circumstances for which the Supplier is not responsible, the Purchaser shall bear the costs of waiting periods and of any additional traveling of the Supplier or the assembly personnel that may be necessary.
4.1	Performance of the stipulated time for delivery is subject to the timely receipt by the Supplier of all documents, necessary permits and releases, especially of plans to be provided by the Purchaser, as well as fulfillment of the agreed terms of payment and other obligations by the Purchaser. To the extent said condition are not fulfilled on time, the time for delivery shall be extended accordingly unless the Supplier is responsible for the delay.	6.5	The Purchaser shall certify to the Supplier at weekly intervals the hours worked by the Supplier's assembly personnel and shall promptly confirm in writing the completion of assembly, erection or commissioning.
4.2	If non-performance of the time for delivery is due to force majeure including impediments, accidents or disturbances, which could not be avoided despite application of due care the time for delivery shall be extended accordingly. Force majeure events shall include but are not be limited to mobilization, war, civil insurrection, terrorism, acts of government, non granting of required export permissions, epidemics, strike, lock-out, raw material shortages, lack of transportation, interruption of electricity and forces of nature.	6.6	If, after completion, the Supplier requests acceptance of the Supplies, it shall be carried out by the Purchaser within two weeks of the Supplier's request, failing which the Supplies shall be deemed to be accepted. Acceptance is also deemed to have taken place if the Supplies are put to use by the Purchaser.
4.3	If the Supplier is responsible for a delay in delivery, the Purchaser who can prove that he suffered a loss from such delay may claim liquidated damages of 0.5 % for every completed week of delay but in no event shall the aggregate of such compensation exceed a total of 5 % of the price of those Supplies which, because of the delay, could not be put to the intended use.	7.	Acceptance
			The Purchaser shall not refuse acceptance of the Supplies for minor defects.
		8.	Defects Liability
			The Supplier shall be liable to the Purchaser for defects including the non-compliance with express warranties or the failure of the Supplies to meet guarantees as follows:
		8.1	The Supplier shall, upon written request of the Purchaser, at his option, repair any defect or replace any Supplies which turn out to be defective within the defects liability period for any defect, which is due to circumstances that existed before the transfer of risk occurred.



general terms & conditions

Type	Description / Technical data	Order No.	Datasheet No.
8.2	<p>The defects liability period shall be 24 months and starts from the manufacturing date printed on the product.</p> <p>The warranty period for replaced or repaired parts of the products is six (6) months starting, from the moment the replacement has been effected, or the repair work has been finished, provided that the warranty period for the products as a whole, pursuant to the preceding paragraph, expires at an earlier date.</p> <p>After expiry of the warranty period pursuant to Art. 8.2 para. 1, a warranty for replaced or repaired parts of the products (Art. 8.2 para. 2) is given for the replaced or repaired parts only, whereas the costs incurred in relation with the removal, transport and reinstallation of such parts shall be assumed by the Purchaser.</p>		
8.3	The Purchaser shall immediately inspect the Supplies and shall immediately notify the Supplier in writing of any defects. If the Purchaser does not notify the Supplier in writing, the Supplies are deemed to have been accepted with respect to such defects.		
8.4	The Purchaser may withhold payments on account of defects only if the legitimacy of the asserted defects liability claim is established by the Purchaser beyond reasonable doubt.		
8.5	The Supplier shall be given adequate time and opportunity to remedy the defect. For this purpose, the Purchaser shall grant the Supplier working access to the non-conforming Supplies including disassembly and reassembly without cost to the Supplier.		
8.6	If an adequate extension granted to the Supplier expires without the defect being remedied, the Purchaser shall have the right to a reduction of the Contract price or, if the portion of the Supplies which is not defective is of no use for the Purchaser, to terminate the Contract and obtain restitution.		
8.7	The Supplier shall not be liable for defects which only insignificantly impair the use of the respective Supply, unsubstantial deviations of the Supplies from the specification of the Supplies, natural wear and tear or damage, arising after the transfer of risk, from faulty or negligent handling, excessive strain, use of unsuitable apertures, defective installation or erection not carried out by the Supplier, inappropriate foundation or particular external influences not explicitly assumed to impact on the Supplies under the Contract.		
8.8	The Supplier shall not be liable if the Purchaser or a third party carries out modifications or repairs improperly.		
8.9	With respect to faulty software, warranty claims may be raised only if the deficiency can be reproduced using unaltered original software version supported by as detailed as possible documentary evidence. In the event of loss of or damage to data and/or data storage media, warranty does not extend to expenditure relating to the restoration of lost data.		
8.10	Any further rights and remedies of the Purchaser than those as per this Section 8 based on a defect, in particular any right to terminate the Contract and obtain restitution or to claim damages, shall be excluded.		
9.	Industrial Property Rights and Copyright		
	Unless otherwise agreed upon in writing between the parties, the Supplier shall provide the Supplies solely where the Purchaser has its seat or registered office free from any industrial property right or copyright, including but not limited to patents, trade secrets, or (hereinafter called "Intellectual Property Rights").		
9.1	In the event a third party, because of an infringement of Intellectual Property Rights by the Supplies asserts legitimate claims against the Purchaser, the Supplier shall be liable to the Purchaser as follows:		
a)	The Supplier shall at his own option and expense either obtain a right to use the Supplies, modify the Supplies so as not to infringe the Intellectual Property Rights or replace the relevant Supply. If this is not reasonably possible for the Supplier, the Purchaser shall be entitled to terminate the Contract whereupon the Supplier shall take back the relevant Supply and refund the Contract price for such Supply.		
b)	Supplier's aforesaid obligations shall exist only provided the Purchaser has immediately notified the Supplier in writing of the claims asserted by the third party, the Purchaser has not acknowledged an infringement and all countermeasures and settlement negotiations are reserved to the Supplier. If the Purchaser stops using the Supplies to reduce the damage or for other important reasons, he shall be obliged to make it clear to the third party that the suspended use does not mean acknowledgment of an infringement of Intellectual Property Rights.		
9.2	Claims of the Purchaser shall be excluded if he is responsible for an infringement of Intellectual Property Rights.		
9.3	Claims of the Purchaser shall also be excluded if the infringement of Intellectual Property Rights was caused by specific demands of the Purchaser, by a use of the Supplies not foreseeable by the Supplier or by the Supplies being altered by the Purchaser or being used together with products not provided by the Supplier.		
9.4	Further rights and remedies of the Purchaser than those as per this Section 9 based on an infringement of third parties' Intellectual Property Rights, in particular the Purchaser's right to claim damages, shall be excluded.		
9.5	The Purchaser may use the plans and drawings provided by the Supplier only for the intended purpose. The Purchaser shall not be entitled to use these plans and drawings for other purposes, especially not for the reproduction of the Supplies or parts of the Supplies.		
10.	Impossibility of Performance / Adaptation of Contract		
10.1	If it is impossible for the Supplier to carry out the Supplies for reasons for which he is responsible, the Purchaser shall be entitled to claim damages. The Purchaser's claim for damages shall be limited to 10 % of the value of that part of the Supplies which, owing to the impossibility, cannot be put to the intended use. The Purchaser shall have no additional rights, in particular neither right to rescind from nor to terminate the Contract nor to reduce the remuneration nor to claim damages.		
10.2	If unforeseeable events in the context of Clause 4.2 substantially change the economic implication or content of the Contract or have a substantial impact on Supplier's business, the Contract shall be adapted appropriately and in good faith. Where this is not economically reasonable, the Supplier shall have the right to terminate the Contract. Notwithstanding any other provision in this Contract, the Supplier shall be entitled to terminate the Contract when a force majeure event has continued for more than 180 days. If the Supplier wants to make use of this right of termination, he shall notify the Purchaser in writing immediately after becoming aware of the force majeure event. This notification requirement shall apply even where at first an extension of the time for delivery had been agreed between the Parties.		
11.	Further Liability		
11.1	Any and all further rights and remedies of the Purchaser against the Supplier for whatsoever legal reason, shall be excluded. In particular, the Purchaser shall not be entitled to challenge the Contract for material error, including any challenge of the Contract for any error related to defects of the Supplies. The Purchaser shall also not be entitled to claim damages; this shall refer in particular to claims for loss of production, loss of use, loss of orders or profit and other direct, indirect or consequential damage.		
11.2	The aforesaid shall not apply if liability is mandatory, e.g. in accordance with the Product Liability Act, in cases of intent, gross negligence by directors and officers of the Supplier or in the case of willful hiding of a defect. Clause 11.2 shall also be applicable to Sections 4, 8, 9 and 10.		
11.3	These limitations of liability shall also apply for the benefit of the Supplier's subcontractors, suppliers, agents, directors, officers and employees.		
12.	Transfer		
	Supplier may transfer the rights and duties arising from the Contract to a third party. This transfer does not become effective if the Purchaser objects to said transfer within four (4) weeks of receipt of such notification. This shall be pointed out by Supplier in the notification.		
13.	Confidentiality		
	Any information made available to the Purchaser by the Supplier in connection with this Contract shall be treated as confidential. The Purchaser shall use the information only for the purposes specified in this Contract. This confidentiality obligation shall not apply to information which Purchaser can demonstrate,		
a)	is already in the public domain or becomes available to the public through no breach by Purchaser of this confidentiality undertaking or		
b)	was in Purchaser's possession prior to receipt from Supplier without a confidentiality undertaking or		
c)	has thereafter been legally obtained without confidentiality obligation from others or		
d)	is independently developed by the Purchaser who had no access to the information received hereunder. The obligations set forth in this Section 13 shall survive any termination of the Contract.		
14.	Dispute Settlement / Applicable Law		
	All disputes arising out of or in connection with the Contract, including any question regarding its existence, validity or termination, shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce (Paris) by three arbitrators appointed in accordance with the said Rules. Each party shall nominate one arbitrator for confirmation by the competent authority under the Rules (Appointing Authority). Both arbitrators shall agree on the third arbitrator within 30 days. Should the two arbitrators fail, within the above time-limit, to reach agreement on the third arbitrator, he shall be appointed by the Appointing Authority. If there are two or more defendants, any nomination of an arbitrator by or on behalf of such defendants must be by joint agreement between them. If such defendants fail, within the time-limit fixed by the Appointing Authority, to agree on such joint nomination, the proceedings against each of them must be separated. The language to be used in arbitration proceedings shall be English. The seat of arbitration shall be Zurich 1. The procedural law of this place shall apply where the Rules are silent. This Contract shall be subject to substantive Swiss law without reference to other laws. The application of the UN Convention on Contract for the International Sale of Goods (CISG) shall be excluded.		
15.	Miscellaneous		
15.1	Mistakes, unintended gaps and contradictions in the Contract are to be treated and construed in accordance with the spirit of this Contract on the basis of mutual trust and of the mutual interests of both parties.		
15.2	In the event of legal invalidity of individual stipulations, the other parts of this Contract shall remain valid. The aforesaid shall not apply where compliance with the terms of this Contract would constitute unacceptable hardship for either party.		

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The information in this document contains general description of the technical options available, which do not always have to be present in the individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.