SIEMENS



SI120 Sintony® Intrusion Control Panel

for home and small businesses

- Multifunctional intrusion control panel
- Modular design
- Extensive assortment of functional modules
- Flexible configuration
- Communication via analog network and ISDN
- 2+1 wards
- Up to 12 activations wards
- 6 22 addressable inputs
- 5 23 programmable outputs
- Up to 19 users
- 2 calendars
- Various different alarm verification methods
- Remote configuration and maintenance using Sylcom® software
- Integration of SiRoute® wireless systems

Sintony® SI120



The **multifunctional intrusion control panel** not only provides specific functions for the highest security demands. It allows for additional security applications such as access control using card readers or local video surveillance.

The **modular design** with a wide range can be adapted to the customer needs and grow with increasing requirements.

Flexible configuration allows for adjustment of the system to fit individual processes, topologies or security concepts.

A wide variety of communication options allows for cost-efficient solutions for configuration, maintenance, alarm transfer, controlling and monitoring of the center using analog and IP networks or ISDN.

2 Calendars (1 for each ward) enables an automatic set and unset.

Various types of alarm verification help prevent false alarms caused by incorrect operation or detection, thereby avoiding stressful situations and costly intervention measures. Several events can be filtered before the alarm is signaling or the alarm transmission can either be delayed or confirmed. In addition to this, the audio and video components enable listening, speaking and seeing events inside the building.

The **Sylcom® Software** can be used for configuration and maintenance of the Sintony control panel. The system can be accessed locally or via analog and IP networks. Sylcom can also be configured as a un-operated parameter server, which the control panel can access to compare the parameters via remote for optimum system data management.

The **22 inputs** and **23 outputs** can be programmed individually. This customization allows you to monitor and control a vast amount of points within a home or small trade wards, to activate system features and to receive signals caused by events.

SiRoute[®] **radio system** integrates all wireless components such as remote controls, sirens, motion and smoke detectors, input and output modules or door contacts into the panel. This embedding system saves you installation time and efforts when covering locations that are difficult to access.



All Sintony intrusion control panels are equipped with shapely, user-friendly keypads with plain text displays and operating support for internal and external activation and deactivation of security wards, quick system check and hidden triggering of robbery alarms. Illuminated keys and LCD display.



SAK41 LCD keypad with flap

The SAK41 is equipped with a 2-line display, each consisting of 16 characters. The display and the keys are fitted with backlights. The 5 LEDs display the most important system states such as on/off, ward "unset", "part set", "full set", alarm, etc. The keypad is equipped with a cover.



SAK51 LCD keypad

The SAK51 is equipped with a 2-line display, each consisting of 16 characters. The display and the keys are fitted with backlights. The 5 LEDs display the most important system states such as on/off, ward "unset", "part set", "full set", alarm, etc.



SAK52 LCD keypad with audio function

The SAK52 is identical to the SAK51. The added audio function (microphone and loudspeaker) supports applications such as alarm verification and remote help.



SAK53 LCD keypad with flap and large display

The SAK53 is equipped with a removable cover and an extra-large 2-line display, each consisting of 16 characters. The display and the keys are fitted with backlights. The 5 LEDs display the most important system states such as on/off, ward "unset", "part set", "full set", alarm, etc.

E-Bus



A large assortment of plug-in modules and peripherals such as LCD keypads, addressable expanders for inputs and outputs, card readers or external power supplies are available for professional installation. The panel feeds, controls and monitors the modules via E-Bus, which can be installed in any topology in the building.



SAT12 transponder in housing

Sintony control panel extension by 4 programmable inputs and 2 outputs via the E-Bus. 2 of these inputs can be used to connect glass break detectors.



SMT12 transponder board only

This unit is identical to SAT12, but without housing. It is installed directly in the control panel, in the external supply or in the universal housing unit SAH24.



SMT44 output transponder board only

This module is used to extend the center by 8 additional outputs (4 OCs and 4 relays). It is installed in the control panel housing, in the external supply or in the universal housing unit SAH24.



W7EG10 SiRoute® E-Bus gateway

The W7EG10 gateway is used for the integration of SiRoute wireless components. Each gateway allows you to operate 7 remote controls, 12 inputs (for detectors or other signal transmitters) and 5 outputs (for sirens or relays).

This cost-effective type of installation allows for placement of the modules where they are needed in the building. The modules can be addressed at the push of a button. In addition to this, the E-Bus can be separated into independent, galvanic isolated wards for increased security.



SAR11 E-Bus Isolator/repeater E-Bus in housing

The SAR11 can be used to divide the incoming E-Bus into two independent, electrically separated supply wards. In addition to this, the E-Bus signals can be received over great distances with this module.



SMR11 E-Bus Isolator/repeater board only

This module is identical to SMR11, but without housing. It is installed directly in the control panel, in the external supply or in the universal housing unit SAH24.



SAP14 power supply 12 VDC / 1.3 A in housing

The external power supply SAP14 includes a bus-monitored 12VDC/1.3A supply, 4 secured 12V outputs and a freely programmable relay output with 48V/5A. The housing includes additional space for 4 SMT12/SMR11 modules and either a 17Ah battery or a 7.2Ah battery with 2 SMX13 relay cards.



SAP20 power supply 12 VDC / 2.3 A in housing

The external power supply SAP20 includes a bus-monitored 12VDC/2.3A supply, 4 secured 12V outputs and a freely programmable relay output with 48V/5A. The housing includes additional space for 7 SMT12/SMR11 modules and either a 27Ah battery or a 7.2Ah battery with 2 SMX13 relay cards.



Audio-Bus

Video-Bus

The Sintony intrusion control panel provides an integrated solution for remote acoustic and optical alarm verification. The building can be divided into 6 different verification zones, in which a surveillance control panel can listen or see after an alarm and communicate with people. It also provides the option of requesting remote support using the keypad.



WMA11plug-on audio module

The WMA11 audio module is the interface for the audio bus and is simply mounted on the Sintony mainboard. The audio bus allows for 2-way transfer of acoustic signals between the audio components and the control panel. The module also decodes the DTMF signals of a telephone, thus enabling control panel via telephone keys.



WAC12 loudspeaker and microphone (2-way audio)

The WAC12 is a combined loudspeaker/microphone solution, which is controlled via the E-Bus. It is possible to connect 3 WAC11 or WAS11 microphone/loudspeaker units to the WAC12 to extend acoustic coverage.



WAC11 loudspeaker and microphone (2-way audio)

The WAC11 is a combined loudspeaker/microphone solution, which can either be connected to the WAC12 or directly to the WMA11. The LED, which is lightening during microphone activation, can be switched off.



WAS11 microphone unit

The WAS11 can either be connected to an addressable WAC12 device or directly to the WMA11 audio module. The WAS11 is equipped with a sensitivity controller.



SAK52 LCD keypad with audio function

The SAK52 is identical to the SAK51. The added audio function (microphone and loudspeaker) supports applications such as alarm verification and remote help.

Audio- Bus

Video-Bus

The detectors can be linked to the verification zone so that the allocated module within the building is activated directly following an alarm. The audio bus and the video bus can be installed in the same cable as the E-Bus for simple, cost-effective alarm verification.



WMV12 plug-on video module

The WMV12 video module is the interface for the video bus and is simply mounted on the Sintony mainboard. A monitor can be connected to check camera availability at the push of a button. In the case of alarm, 6 images from the allocated camera are stored digitally and transferred to the emergency center with alarm notification. The WMV12 is not required for local surveillance.



WAV61 monitor interface

The WAV61 monitor interface enables connection of a monitor or video recorder to the video bus for local video monitoring. It can be used to view and record the existing images from WAC32 or WAT21.



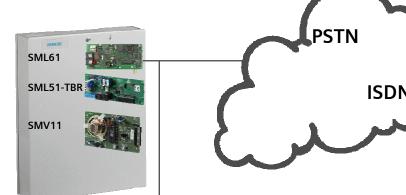
WAT21 video camera interface

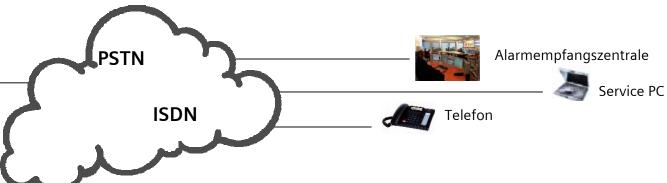
The WAT21 E-Bus connection is used to connect a Siemens or industry-standard video camera to the video bus. In addition to this the module has interfaces for the microphone/loudspeaker modules WAC11 and WAS11. A relay output also signalizes activation of the interface subsequent to an alarm (e.g. to switch on external infrared lighting).



WAC32 E-Bus camera

The WAC32 includes a camera, a loudspeaker and a microphone. The camera does not depend on surrounding lighting due to integrated infrared lighting. Therefore the WAC32 is especially suited to difficult environment conditions.





There are several communication modules available for the Sintony intrusion control panel, which can be implemented for alarm transfer, configuration and maintenance. The Sylcom Software provides a cost-effective maintenance of the system.



SML51-TBR dialer board PSTN

The SML51-TBR dialing device connects the Sintony with the analog telephone network (PSTN). It supports the various different remote applications such as alarm transfer, audio/video alarm verification, configuration or maintenance. Used in connection with the SMV11, individual voice messages can also be transferred.



SML61 dialer board ISDN

The SML61 dialing device connects the Sintony with the digital network (ISDN). It supports the various different remote applications such as alarm transfer, audio/video alarm verification, configuration or maintenance. Used in connection with the SMV11, individual voice messages can also be transferred.



SMV11 voice module

The SMV11 stores 6 alarm messages, 4 help messages and an identification message, which can be recorded individually with the integrated microphone.

Overview system technology

Inputs and outputs		Standard SI120	Expandable to
Equation Company Com		(expansion options	
Outputs	Inputs and outputs		
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Reliay 2491/2A	·		
Relia SAY SA		4	
Functions		1	
Independent main wards		-	2
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Flooring per ward 6		2	
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Automatic wireless network routing yes			
	SiRoute wireless remote controls	7	
Bi-directional wireless system yes	Automatic wireless network routing	yes	
	Bi-directional wireless system	yes	

Technical specifications

	SI120UK	SAP20	SAP14
Power supply	230VAC +10%/-15%, 50 Hz	230VAC +10%/-15%, 50 Hz	230VAC +10%/-15%, 50 Hz
Main fuse	T160mA	T200 mA	T200mA
Power consumption	max. 160mA	max. 300 mA	max. 210 mA
Power supply output voltage / nominal voltage	12VDC / 0.7 A	12 VDC / 2.3 A (SMP20)	12VDC / 1,3 A (SMP14)
Battery type (optional)	12 VDC / max. 7.2 Ah	12 VDC / max. 27 Ah	12 VDC / max. 17 Ah
Inputs	6		
Outputs	1 x Relay24VDC / 2A 4 x OC 12VDC / 150mA	1 x Relay 48V / 5A	1 x Relay 48V / 5A
Operating temperature	0 ~ +40 °C	0 ~ +40 °C	0 ~ +40 °C
Housing protection class	IP30	IP30	IP30
Housing material	Metalhousing 1.5 mm	Metalhousing 1.5 mm	Metalhousing 1.5 mm

	SAK41	SAK51	SAK52	SAK53
Power supply	12 VDC (via E-Bus)	12 VDC (via E-Bus)	12 VDC (via E-Bus)	12 VDC (via E-Bus)
Power consumption	min. 34 mA Typ. 34 mA max. 114 mA	min. 34 mA Typ. 34 mA max. 114 mA	min. 34 mA Typ. 34 mA max. 115 mA	min. 34 mA Typ. 34 mA max. 115 mA
LCD display	2 x 16 characters			
Operating temperature (93% relative humudity)	0 ~ +55 °C			
Housing protection class	IP30	IP30	IP30	IP30
Housing material	ABS	ABS	ABS	ABS

	SAT12 / SMT12	SMT44	SAR11 / SMR11	W7EG10
Power supply	12 VDC (via E-Bus)	12 VDC (via E-Bus)	12 VDC (via E-Bus)	12 VDC (via E-Bus)
Power consumption	min. 7 mA Typ. 11 mA max. 15 mA	min. 42 mA max. 66 mA	min. 41 mA max. 69 mA	min. 8 mA Typ. 10mA max. 40 mA
Inputs	4		E-Bus 0	
Outputs	2x OC 12VDC / 150mA	4x Relay 24VDC / 2A 4x OC 12VDC / 150mA	E-Bus 1, E-Bus 2 (max. 400mA) Galvanic isolation between input and output	
Frequency				868.3 MHz
Operating temperature (93% relative humidity)	-10 ~ +55 °C	-10 ~ +55 °C	-10 ~ +55 °C	-10 ~ +55 °C
Housing protection class	IP30	IP30	IP30	IP30
Housing material	ABS		ABS	ABS

Technical specifications

	WAC12	WAC11	WAS11	WAV61	WAT21	WAC32
Power supply	12 VDC (via E-Bus)	Audio-Bus	Audio-Bus	12VDC	12 VDC (via E-Bus)	12 VDC (via E-Bus)
Power consumption	min. 5 mA max. 24 mA	min. 0 mA max. 7 mA	min. 0 mA max. 3 mA	min. 40 mA max. 40 mA	min. 12 mA max. 107 mA	min. 15 mA max. 1000 mA
Battery						NiCd Battery, loading via E-Bus
Microphone activation	LED display	LED display	LED display			LED display
Camera						LCD 1/3"; 0.5 Lux; 300'000 pixel
Camera lens						3.8 mm
Camera IR lighting						12 Diodes
Inputs					PAL / Composite from camera (1Vpp/75Ω)	
Outputs				PAL / Composite for monitor / VCR (1Vpp/75Ω)	PAL / Composite for monitor (1Vpp/75Ω)	PAL / Composite for monitor (1Vpp/75Ω)
					OC 12 VDC/150 mA activ LOW mit 40 Ω (in Serie)	
Sabotage signalizing	Via E-Bus	NC contact	NC contact	NC contact	Via E-Bus	Via E-Bus
Bus connections	E-Bus Audio-Bus			Video-Bus	E-Bus Audio-Bus Video-Bus	-Bus Audio-Bus Video-Bus
Operating temperature (93% relative humidity)	-10 ~ +55 °C	-10 ~ +55 °C	-10 ~ +55 °C	-10 ~ +55 °C	-10 ~ +55 °C	0 ~ +40 °C
Housing protection class	IP30	IP30	IP30	IP30	IP30	IP30
Housing material	ABS	ABS	ABS	ABS	ABS	ABS

	WMA11	WMV12	SMV11	SML51	SML61	SMX23
Power supply	Via mainboard	Via mainboard	Via mainboard	Via mainboard	Via mainboard	Battery SI120
Power consumption	min. 10 mA max. 100 mA	min. 8 mA max. 160 mA	min. 3 mA max. 25 mA	min. 4 mA max. 82 mA	min. 4 mA max. 82 mA	
Test intervall	max. 100 ma	max. 100 ma	max. 25 ma	IIIda. 02 IIIA	max. 02 m/	1 min.
Operating temperature (93% relative humidity)	0 ~ +40 °C	0 ~ +40 °C	0 ~ +40 °C	0 ~ +40 °C	0 ~ +40 °C	0 ~ +40 °C

Order information

Туре	Item No.	Designation	Dimensions (WxHxD in mm)	Weight
SI120UK	A6E80115610	Sintony control panel SI120UK (English version)	266x334x75	3.200 kg
SAK41	BPZ:8006590001	LCD keypad with front cover	110x166x30	0.250 kg
SAK51	BPZ:8006630001	LCD keypad	170x110x30	0.220 kg
SAK52	BPZ:8006930001	LCD keypad with audio function	170x110x30	0.250 kg
SAK53	BPZ:8006940001	LCD keypad with large display and front cover	170x110x30	0.270 kg
SMT44	BPZ:8006730001	Output transponder without housing	156x55x20	0.090 kg
SAT12	BPZ:8006150001	Transponder in housing	135x86x27	0.130 kg
SMT12	BPZ:8006160001	Transponder board only	90x52x20	0.050 kg
SAR11	BPZ:8000990001	Isolator/repeater E-Bus in housing	135x86x27	0.130 kg
SMR11	BPZ:8001090001	Isolator/repeater E-Bus board only	90x52x20	0.050 kg
SAP14	BPZ:8003160001	Power supply 12 VDC / 1.3 A with housing (without battery)	303x405x88	5.400 kg
SAP20	BPZ:8006880001	Power supply 12 VDC / 2.3 A with housing (without battery)	365x505x133	8.400 kg
WMA11	BPZ:8000310001	Audio module	113x60x26	0.060 kg
WMV12	BPZ:8000040010	Video module	130x118x24	0.130 kg
WAC12	BPZ:8007720001	2-way audio unit with loudspeaker/microphone (addressable)	105x145x70	0.240 kg
WAC11	BPZ:8000110001	2-way audio unit with loudspeaker/microphone	105x145x70	0.240 kg
WAC32	BPZ:8001750001	E-Bus camera with IR lighting	85x215x120	0.450 kg
WAS11	BPZ:8005230001	Audio unit with microphone	77x77x35	0.070 kg
WAV61	BPZ:8003430001	Video monitor interface	135x86x27	0.120 kg
WAT21	BPZ:8002150001	Video camera interface	135x86x27	0.140 kg
SMV11	BPZ:8000440001	Voice module	106x60x26	0.060 kg
SML51TBR	BPZ:8003480001	Analog PSTN dialing device / modem	140x50x24	0.070 kg
SML61	BPZ:8003970001	ISDN dialing device / modem	140x65x25	0.070 kg
SML21	BPZ:8000530001	Line monitoring for analog telephone network	50x31x20	0.020 kg
SMX13	BPZ:8009180001	Relay module	60x38x20	0.030 kg
SMX23	BPZ:8003400001	Breakaway contact for Sintony 410	15x60x38	0.030 kg
SAH24	BPZ:8004370001	Plastic housing for module	215x130x35	0.180 kg
W7EG10	BPZ:8010650001	SiRoute E-Bus gateway	135x86x27	0.130 kg
SAQ11	BPZ:8001960001	PC/printer cable		0.090 kg

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