

Desigo™

Touch room operator unit QMX7.E38 4.3 inch

- High quality, TFT display 4.3" with 262,000 colors and glass surface in aluminum metal housing for use with Desigo TRA. Resolution: 480 x 800 pixels (wide screen).
- IPS technology for wider viewing angle, more brilliant colors and higher contrast.
- Capacitive touch screen.
- Portrait and landscape application.
- Energy efficiency function ("Green Leaf $ot\!\!D$ ")
- Intuitive operation with text and exchangeable symbols.
- Navigate through multiple displays and operating pages.
- LED backlit, dimmed automatically.
- Brightness sensor for energy-saving background lighting.
- 24 VAC power supply or Power over Ethernet (PoE)
- Connected via Ethernet RJ45 connection.
- Compact design with low installation profile for flush mounting.
- Easy to install and includes theft protection.

The room operator unit QMX7.E38 is suited for offices, meeting or conference rooms, hotel, reception areas, care facilities, and hospitals. The room operator unit QMX7.E38 provide local room operation for lighting, blinds, scenes, and HVAC applications. It is used together with the integrated web server on a PXC3 room automation station for Desigo TRA (as from V5.1 service pack). The room operator unit QMX7.E38 provide intuitive operation for the room user.

Functions

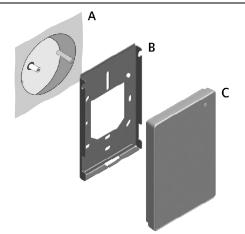
Operation and display of:

- Energy efficiency function ("Green Leaf \$\varnother{P}")
- Lighting and blinds
- Scenes (e.g.: meeting, presentation, break, non-occupied)
- Room temperature, room air quality
- Room operating modes and comfort extension
- Occupancy operation
- Ventilation for various fan stage types
- Information including open window, room operating state, time and date
- General digital and analog outputs
- Navigate on various operating pages

Order and type overview

| Туре | Stock number | Designation |
|----------|--------------|-------------------------------|
| QMX7.E38 | S55624-H109 | 4.3" touch room operator unit |

Execution



• For flush-mount installation (A).

- Receptacle: Note dimensions and hole distances!

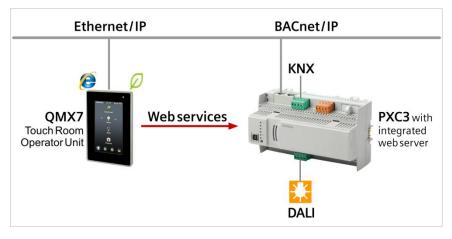
- The base plate (B) has screw holes for all common flush-mount receptacles.
 I he screw head height may not exceed 3 mm.
- The unit (C) includes electronics, connection for one RJ45 plug and one AC 24 VAC plug.
- One AC 24 VAC plug is provided.



The devices are considered electronics devices for disposal in terms of European Directive 2002/96/EC (WEEE) and may not be disposed of as domestic waste. The corresponding national, legal regulations must be observed and the device must be disposable via the appropriate channels. Observe all local and applicable laws.

Engineering

- ABT is used to engineer the unit.
- The web server is located on the Desigo TRA room automation station.
- QMX7 is a web client that gets the data from the web server.



QMX7 web client with 1:1 connection to a web server, e.g. on a PXC3.

Related documents

- Desigo TRA installation instructions CM111043
- Desigo Documentation on basics CM110664, Sec. 18, 21, and 26
- IEEE 802.3at / Power-over-Ethernet http://standards.ieee.org/about/
 - get/802/802.3.html

CM1N9203

Datasheet
 Room automation station PXC3.E7...

Important: Label

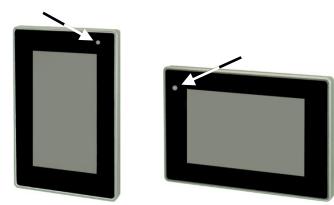
During commissioning (especially involving multiple room operator units), the serial numbers can be read in the ABT software

using a barcode reader.

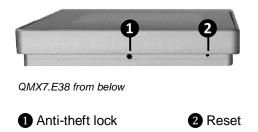
The serial number is on the nameplate, as adhesive label on the device as well as on the display at start up.



- The room operator unit QMX7.E38 is intended for flush-mount installation (A). It can be installed in the following receptacles: UL, BS, VDEE/CEE and modular. Please comply with all local regulations when installing!
- 2. Note the correct installation position. The brightness sensor should always be on top:



3. Removal: The room operator unit QMX7.E38 has on the underside (for vertical installation) or on the right side (for horizontal installation) two holes on the installation part:



I Note

- 1. Anti-theft lock ① must be pressed in using a metal pin (hole diameter = 2 mm). At the same time, lift the lower end (vertical installation) or the right end (horizontal installation) of the room operator unit and pull it up or to the left respectively.
- 2. Reset **2** can be pressed using a bent paperclip. This will restart the device.

i See CM1M9295 (installation instructions for the room operator unit QMX7.E38, included in the packaging).

The QMX7 has three connections on the rear:



 Ethernet RJ-45 connection (8P8C). For this connection, use a plug with as short a body as possible, since space in the wall receptacle may be limited.



Example of a short RJ-45 plug.

- 2 External voltage connection.
- ③ Part used during production; unusable.

i Note

You must comply with all local regulations for wiring.

First-time commissioning

A wizard guides you through the first-time commissioning. A "Display orientation screen" is displayed the first time you turn on the power.

- The wizard is only displayed on a QMX7 (Client) not on PCs or mobile browsers.
- With a connection to a PC or mobile client existing only a local connection is required.

Change display position

Note

You can set the display position to account for the installation (four positions; in the example, you see the two recommended positions). The orange arrow indicates the direction of rotation to the next display position.

1. Position. Tap the orientation surface to go to the next position.



⇔ Left: Position of the screen for "portrait"
 installation of the QMX7 (=default).
 ⊕ Below: Position of the screen for the "land-scape" installation of the QMX7.



Language

- 2. Tap the white arrow \triangleright on the navigation bar to go to language settings.
- 3. Select the desired language.

| German | English | 2/5 | lan | guage. Tł | ne settir | ig is reta | ined. |
|----------|------------|-----|-----|-----------|-----------|------------|---------|
| Czech | Norvegian | | | | | | |
| Danish | Polish | | • | Language | | | 2/5 |
| Dutch | Portuguese | | _ | English √ | Finnish | Italian | Russian |
| innish | Russian | | | Czech | French | Norwegian | Slovak |
| rench | Slovak | | | Danish | German | Polish | Spanish |
| ungarian | Spanish | | | Dutch | Hungarian | Portuguese | Swedish |
| Italian | Swedish | | | ÷ | | | |

IP settings

4. Tap the white arrow \triangleright on the navigation bar to go to IP settings.

| Network - settli DHCP | | Manual | 3/5 | Û | Below: N | 1anual n | node. | |
|----------------------------|---|--------|------|---|--------------------|----------|-------------------|-----|
| IP address 192.168.1.1 | | | -8 | | _ | _ | | |
| Subnet mask 255.255.255 | 1 | | - 84 | • | Network - settings | IPv4 | | 3/5 |
| Router 192.168.1.1 | | | _ | | DHCP | Manual | v | |
| Preferred DNS | | | | | IP address | | Preferred DNS | |
| 192.168.1.1 | | | | | 192.168.1.1 | | 192.168.1.1 | |
| Alternate DNS | | | _ | _ | Subnet mask | | Alternate DNS | |
| 192.168.1.1 | | | | | 255.255.255.1 | | 192.168.1.1 | |
| Physical addre | | | | | Router | | Physical address | |
| d4:9a:20:d1: | | | - 84 | | 192.168.1.1 | | d4:9a:20:d1:49:62 | |
| | | < | | | | | | |

You can select between DHCP (dynamic assignment of the network configuration by the server) and manual modes.

Tap the desired field to manually enter the network configuration. The edit screen opens:

| ALC: NO | A. Setu | ngs IPv4 | | | 3/5 |
|---------|----------|----------|---|----|-----|
| IP ad | dress | | | | |
| 192 | 168.1.12 | 2 | | | |
| | | | | | |
| | 1 | 2 | 3 | 00 | |
| | 4 | 5 | 6 | | |
| | 7 | 8 | • | • | |
| | 0 | a | b | 1 | |
| | ¢ | đ | • | | |
| | | | | | |

Tap the corresponding field to enter data. Tap the \triangleleft on the navigation bar to return to the network screen.

| IP addr | r - setting ess | | | | | | | | 3/ |
|---------|--------------------|---|---|---|---|------|---|---|----|
| 192.10 | 58.1.12 | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | , | 0 |
| | b | ¢ | d | • | 1 | - 20 | - | 1 | œ |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Server binding

5. On the network screen, tap ▷ on the navigation bar to go to the server connection screen.

i Depending on the selected settings the QMX7 will automatically restart. After the restart the server connection page is displayed.



| Server C Server | | | | | | | | | | |
|--------------------|---------|----------|----|---|---|---|----|-----|------|----|
| https:/ | v192,16 | 8.1.1/ro | om | | | | | | | |
| q | • | • | | t | y | u | ŝ, | ۰ | P | œ |
| \uparrow | | \$ | d | | 9 | h | I. | * | 1 | 8 |
| 123 /+7 | z | × | ¢ | • | b | n | m | 340 | - 33 | -0 |
| | | | | | | | | i | | |
| | | | | | | | | | | |

6. Enter the required data and conclude with ▷. The touch panel goes to the next menu "Location Binding".



Enter the IP address as given below:

https://<IP address>/room i Example: https://192.168.1.1/room

Location Binding

| Loc | ation | <u>.</u> | | | | | | | |
|-----|-------|----------|---|---|---|---|---|----|---|
| u | rem | ipsu | m | | | | | | |
| | swor | | m | | | | | | |
| q | * | • | , | 1 | y | u | 1 | 0 | p |
| Ť | a | | d | , | 9 | h | 1 | k | 1 |
| | 2 | × | e | ۷ | b | n | m | ÷. | 4 |
| | 13 | | | 4 | | | | (| ŝ |

| ocation | | | | | 24 | ssword | | | | 5/5 |
|------------|-------|----|---|---|------|---------|----|-----|-----|-----|
| | ipsum | ŝ. | | | - 07 | orem ij | | | | |
| q | • | • | • | t | у | u | i, | ۰ | p | œ |
| \uparrow | | \$ | d | 1 | 9 | h | 1 | k | 1 | ÷. |
| 123 /+7 | ı | × | ¢ | ٠ | b | n | m | 840 | - 6 | -0 |
| | | | | | | | | | | |
| | | | | | | | | | | |

 Tap ▷ after enter the required data. The client now attempts to connect to the server...



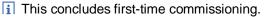


Tap \lhd to return to step 5, Server Connection.

...and indicates the corresponding location after successfully connecting (example):





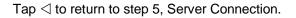


No connection?

The following message is displayed if the unit cannot establish a connection during first-time commissioning:



| Automatic reconnection in progress | |
|---------------------------------------|--|
| in progress | |



Troubleshooting

Proceed as follows after this message is displayed:

- 1. Check your entries (IP setting, server binding, location binding) and correct as needed.
- 2. Check installation (Ethernet connection, power if not PoE, PoE switch, etc.).
- Recommission the unit.

 Please contact your local point-of-contact at the next branch office if it still does not work (the addresses of Siemens Regional Companies are available at www.siemens.com/sbt).
 Contact the support team at HQ if the local point-of-contact is unknown:

Contact the support team at HQ if the local point-of-contact is unknown fieldsupport-zug.ch.sbt@siemens.com.

Operation

| Communications prob- | Under normal operation, the client attempts to automatically reestablish a lost con- |
|----------------------|---|
| lems? | nection. A dialog box is displayed if the unit fails on the first attempt (as per above |
| | "No connection"). Proceed in this case as described in Select the Settings page |
| | (see next page). |

It is easy to make settings on the QMX7 on easy-to-understand pages. Once changed, the settings are saved in non-volatile flash memory.

The following settings can be made directly on the QMX7:

Possible settings



End settings Tap the "Done" button.

---> Exits this screen and shows the default screen.

| About | 4 |
|--------------|----------|
| Brightness | A |
| Screen saver | • |
| | |
| | |
| | |
| | |
| | |
| | |
| * | |

List topics Tap the desired topic.

---> Opens the corresponding screen.

| Settings | |
|--------------|------|
| About | |
| Brightness | |
| Screen saver | |
| | |
| | |
| | |
| | |
| | |
| | |
| | Done |
| N | |

Setup wizard Tap the button.

---> After tipping, a request to push the reset button is displayed. This will start the QMX7 in the setup wizard mode.

Select the Settings page.



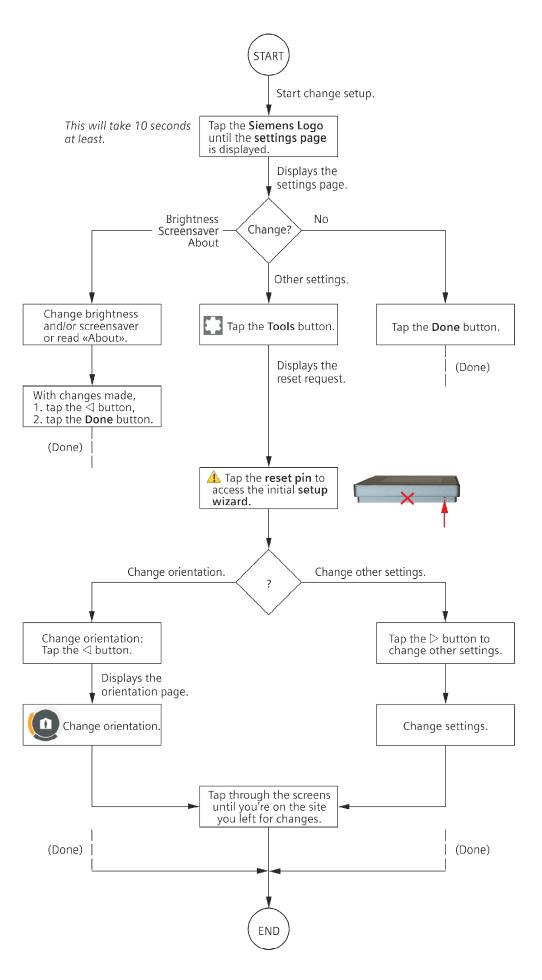
You can start up the wizard at any time during normal operation using the following sequence. The experienced user can long tap the Siemens logo (i.e. longer than 10 seconds) to open the Settings page from any other page (see flow chart).

i An hour glass is displayed for 3 seconds to affirm correct tipping of the Siemens logo.

You can view information here and change touch panel functionality and display.

After swiping the navigation bar timeout, the default page is automatically displayed.

The next page displays a flow chart with basic navigation to the settings pages.



i The following pages include additional information on settings pages.

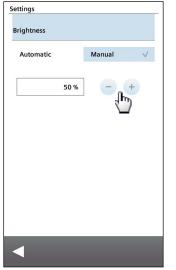
Settings

List of topics

| Serial number 094567384953 Firmware version V3.4 Hardware version V1.0 IP address 192.168.1.2 Sobnet mask 255.255.255. Router 192.168.1.23 Alternate DNS 192.168.1.23 Physical address a9:d4:20:d1:49:6 Web server Device PXC Serial number 094567384953 Firmware version V1.0 Hardware version V1.0 IP address 192.166.1.2 Submet mask 255.255.255.4 | About | |
|--|------------------|-------------------|
| Serial number 094567384953 Firmware version V3.4 Hardware version V1.0 IP address 192.168.1.2 Sobnet mask 255.255.255. Router 192.168.1.23 Alternate DNS 192.168.1.23 Physical address a9:d4:20:d1:49:6 Web server Device PXC Serial number 094567384953 Firmware version V1.0 Hardware version V1.0 IP address 192.166.1.2 Submet mask 255.255.255.4 | Touchpanel | |
| Firmware version V3.4 Hardware version V1.0 Hardware version V1.0 Paddress 192.168.1.2 Subnet mask 255.255.255. Router 192.168.1.23 Preferred DNS 192.168.1.23 Physical address a9:d4:20:d1:49:6 Web server Device PXC Device PXC Serial number Q94567384953 Timware version V1.0 Hardware version V1.0 Paddress Subnet mask 255.255.255. | Device | QMX7 |
| Hardware version V1.0 IP address 192.168.1.2 Subnet mask 255.255.355. Router 192.168.1.23 Alternate DNS 192.168.1.23 Alternate DNS 192.168.1.23 Physical address a9:d4:20:d1:49:6 Web server Device PXC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 Hardware sersion V1.0 Hardware sersio | Serial number | Q945673849534 |
| IP address 192.168.1.2 Subnet mask 255.255.255. Router 192.168.1.23 Preferred DNS 192.168.1.23 Alternate DNS 192.168.1.23 Physical address a9:d4:20:d1:49:6 Web server Device Device PXC Serial number Q94567384953 Firmware version V1.0 Nardware version V1.0 Paddress 192.168.12,3 | Firmware version | V3.41 |
| Subnet mask 255.255.255. Router 192.168.1. Preferred DNS 192.168.1.23 Alternate DNS 192.168.1.23 Physical address 49:d4:20:d1:49:6 Web server Device PXC Device PXC Serial number Q94567384953 V1.0 Hardware version V1.0 Paddress 192.168.1.23 | Hardware version | V1.02 |
| Router 192.168.1. Preferred DNS 192.168.1.23 Alternate DNS 192.168.1.23 Physical address a9:d4:20:d1:49:6 Web server Device Device PXC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 Jabenet mask 255.255.255.4 | IP address | 192.168.1.21 |
| Preferred DNS 192.168.1.23 Alternate DNS 192.168.1.23 Physical address a9:04:20:01:49:6 Web server Device PKC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 IP address 192.168.1.2 | Subnet mask | 255.255.255.0 |
| Alternate DNS 192.166.1.23 Physical address a9:d4/20:d1:49:6 Web server Device PXC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 IP address 192.166.1.2 | Router | 192.168.1.1 |
| Physical address a9:d4:20:d1:49:6 Web server Device PXC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 Hardware s192:166.1.2 Subnet mask 255.255.255.4 | Preferred DNS | 192.168.1.232 |
| Web server Device PXC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 Hardware sersion V1.0 Subnet mask 255.255.255 | Alternate DNS | 192.168.1.233 |
| Device PXC Serial number Q94567384953 Firmware version V1.0 Hardware version V1.0 IP address 192.166.1.2 Subnet mask 255.255.255 | Physical address | #9:d4:20:d1:49:62 |
| Serial number 094567384953 Firmware version V1.0 Hardware version V1.0 IP address 192.166.1.2 Subnet mask 255.255.255 | Web server | |
| Firmware version V1.0 Hardware version V1.0 IP address 192.168.1.2 Subnet mask 255.255.255. | Device | PXCI |
| Hardware version V1.0 IP address 192.168.1.2 Subnet mask 255.255.255. | Serial number | Q945673849534 |
| IP address 192.168.1.2 Subnet mask 255.255.255. | Firmware version | V1.00 |
| Subnet mask. 255.255.255. | Hardware version | V1.00 |
| and the second sec | IP address | 192.168.1.20 |
| | Subnet mask | 255.255.255.0 |
| Router 192,168.1. | Router | 192.168.1.1 |

The page includes supporting information on touch panel and web server. For vertical scrolling, tap \triangle or ∇ , to return to overview page, tap \triangleleft .

Brightness



Screensaver Settings Screen saver Dark ✓ Red. Backlight վեղ

Manual mode> Use +/- to set screen brightness.

Set the screensaver brightness (two stages). Dark

i The unit assumes this in auto mode.

= No backlight Reduced = Minimum level backlight

Portrait settings

| Layout | |
|--------|--|
| | |

Visualization example



Navigation pages

- Number of navigation pages4 max.
 - Number of widgets and scenes without navigation 5 max.
 - Number of widgets and scenes with navigation 4 max. → total 4 x 4 = 16
 - Only scenes in a view6 max./page

Landscape format settings

Layout

| Status Bar | |
|----------------|--|
| Work Area | |
| Navigation Bar | |

Visualization example



Navigation pages

Navigation pages 6 max.

- Number of widgets and scenes without navigation ... 4 max.
- Number of widgets and scenes with navigation:4 max. → total 4 x 6 = 24
- Only scenes in a view......6 max.
- Maximum number of scenes6 max./page

The device is virtually maintenance free. Dirt on the display can be cleaned using off-the-shelf display cleaner for smart phones, a moist rag, and/or off-the-shelf microfiber cloth for monitors or glasses.

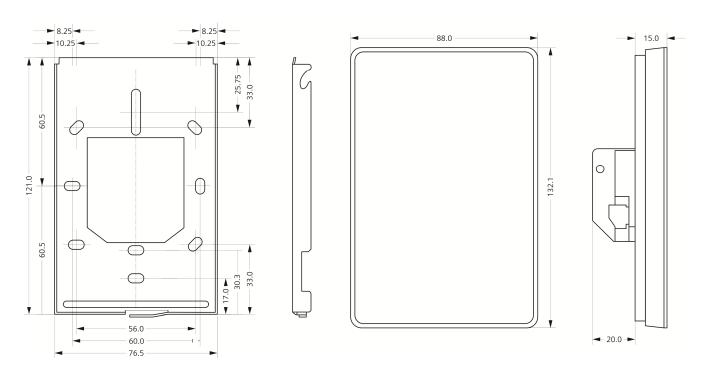
Technical data

| Power supply | Operating voltage (SELV/PELV) | AC 24 V (+20% / –20%) r PoE |
|------------------|--|--|
| | Frequency | 50/60 Hz |
| | Power consumption | |
| | AC 24 V | Max. 4.2 VA |
| | PoE | Class 1 as per standard "IEEE 802.3at- |
| | | 2009 / Power-over-Ethernet (PoE)" |
| | Screw terminals for connection up to | 1.5 mm ² |
| | | i Wiring must be protected and fused i accordance with local regulations! |
| Display | Screen diagonal measurement | 10.92 cm (4.3 inch) |
| лэріау | Resolution. | 800 x 480 (wide screen format 16:9) |
| | | TFT |
| | Type Number of colors | 262,000 |
| | | · · · · · · · · · · · · · · · · · · · |
| | Brightness | <u>340 cd · (m2)-1</u> |
| | Contrast | 480:1 |
| | Backlit display | LED, dimmable |
| ouchpad | Туре | Capacitive |
| Input/output | Ethernet | 1x 10/100 Mbit/s |
| | Acoustic feedback | Piezoelectric signal ("beeper") |
| Standards | Product standard | |
| Standards | Automatic electronic controls for household and similar use as well as General requirements | EN 60730-1 |
| | Compliance, approvals, certification | |
| | CE | CM1T9295xx |
| | È | CM1T9295xx_Cx |
| | | http://database.ul.com/ |
| | Œ | http://directories.csa-international.org/ |
| | F© | 47 CFR Part 15 Class B |
| Protection class | Protection class | III; as per EN 60730-1 (when properly installed) |
| | Housing | IP30 |
| | Ŭ | As per EN 60529 (when properly in- stalled) |
| | Degree of pollution | 2 (as per EN 60730-1) |
| | <u></u> | |

| Environmental compati- bility | The product environmental declaration CM1E9292 contains data on environ- mentally compatible product design and assessments (RoHS compliance, mate- rials composition, packaging, environ- mental benefit, disposal) | ISO 14001 (Environment), ISO 9001 (Quality) | | | |
|----------------------------------|---|--|---------------------------------|-------------------------------|--|
| Dimensions | | See "Dimens | ions" | | |
| Weight | | 265 g | | | |
| Housing material | Front | Aluminum co | lorless, anodiz | ed, glass | |
| | Read | Plastic ABS | Plastic ABS | | |
| Ambient conditions | | Operation EN 60721- 3-3 | Transport to EN 60721-3-2 | Storage to EN 60721-3-1 | |
| | Climatic conditions | Class 3K5 | Class 2K3 | Class 1K3 | |
| | Temperature | 0+50 °C | -25+70 °C | -25+65 °C | |
| | Humidity | < 095% r.h. (non- condensing) | < 95% r.h. | < 95% r.h. | |
| | Mechanical conditions | Class 3M2 | Class 2M2 | Class 1M2 | |
| | Elevation above sea level | Max. 3,000 m above sea level | | | |

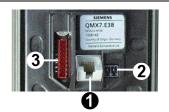
Dimensions

All dimensions in mm



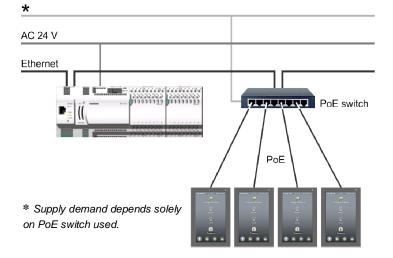
Connections

Overview

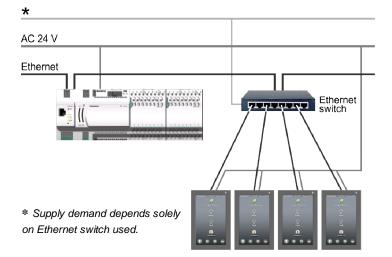


- $\textcircled{1} \mathsf{LAN} \mathsf{RJ-45}$
- 2 24 VAC; not used for PoE
- ③ Connection for production purposes No operational use possible.

Power over Ethernet (PoE)



External voltage supply



Attachment: QMX7 symbols

General notes on symbols

The symbols used in QMX7 represent various levels of operability. (ii) The following examples represent a part of the complete symbol library only.)

1. Application

Displays functions (e.g. meeting, presentation, work ...).



2. Display

Displays values (e.g. Light On/Off, Stage 2).



3. Navigation

Active oder passive symbols in the navigation bar (screen bottom).



Example: Scene active, else passive.

4. Read-only values

Symbols without active function.



5. Tools

Symbols for various auxiliary functions (e.g. more, less, etc.).



6. Feedback

Auxiliary symbols (circle, rings) showing the status of a symbol, e.g. «feedback tap», «feedback tap and hold», «feedback blocked».



Given the respective status, the following symbol classes appear either active or inactive:

| Applic | ation | Display valu | ues (large) | Display valu | ues (small) |
|--------|----------|--------------|-------------|--------------|-------------|
| Blir | nd | Light | | Protection | |
| active | inactive | active | inactive | active | inactive |
| Navig | me | | | | |
| active | inactive | | | | |

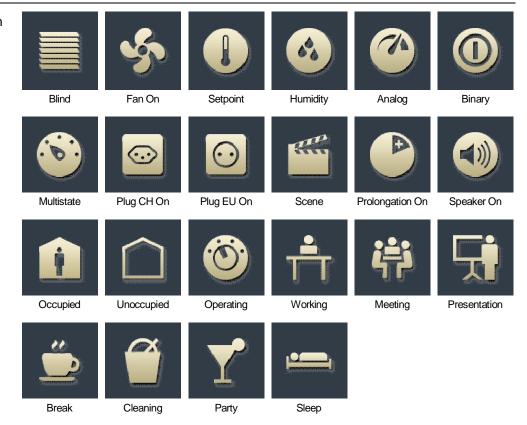
The following symbol classes only appear in normal status:



All symbols denotation: See next page.

Application

Only active symbols shown



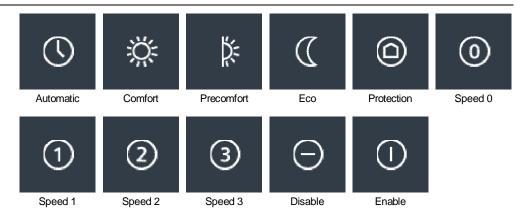
Values (I)

Only active symbols shown



Values (II)

Only active symbols shown

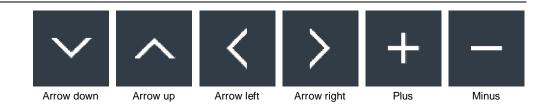


Navigation

Only active symbols shown 1 Blind Light Setpoint Fan Scene Humidity i T Prolongation Occupied Operation Info Leaf Favorite -0 0 Parameter List

Read-only display





Feedback

