Desigo™ TRA

Wall-mounted sensors and room operator units for KNX PL-Link, KNX S-mode and KNX LTE-Mode

Communicative sensors, switches and room operator units with KNX (S-mode, LTE-Mode) or KNX PL-Link (for Desigo™ Total Room Automation)

Functions (depending on type):

- Energy efficiency function ("Green Leaf 🌿")
- Room temperature, CO₂, and humidity measurement
- Control of light, blinds, and scenes
- PID controller for room temperature or ventilation (KNX S-mode)
- LCD Display for room temperature, operating mode, etc.
- Label for light, blinds and scenes (exchangeable, created with Word template)
- Operation via 8 or 16 touchkeys
- Interface KNX (S-mode, LTE-Mode) and KNX PL-Link (for TRA, with plug & play functionality)
- Powered over KNX PL-Link / KNX bus
- LEDs to indicate the switch state or the position of the device in dark rooms
<table>
<thead>
<tr>
<th>Product number</th>
<th>Stock number</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Temperature sensor</td>
</tr>
<tr>
<td>Sensors</td>
<td>QMX3.P30</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>QMX3.P70</td>
<td>X</td>
</tr>
<tr>
<td>Room operator units</td>
<td>QMX3.P02</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>QMX3.P34</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>QMX3.P74</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td>QMX3.P37</td>
<td>X</td>
</tr>
<tr>
<td>Accesso-</td>
<td>QMX3.MP1</td>
<td>S55624-H110</td>
</tr>
<tr>
<td>ries</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Use / compatibility**

**Use with KNX PL-Link**

The room automation station determines the functions of both LCD display and keys.

- **Measure and indicate** the room temperature, humidity and CO₂.
- **Operate** the room functions.
- **Indicate external information**
  (outdoor temp., outdoor humidity, state of a window switch).

**Use with KNX S-mode**

- **Measure and indicate**
  - the room temperature
  - the relative humidity
  - the CO₂ concentration

- **Indicate external information**
  - outdoor temperature
  - outdoor humidity
  - state of a window switch

- **Control** (with a PID controller)
  - of the room temperature

- **Control** (threshold value switch)
  - of the relative humidity
  - of the CO₂ concentration

- **Switches**
  - switching and dimming of lights
  - control of blinds
  - selecting and saving of scenes
Use with KNX LTE-Mode

LTE can only use the sensor information of the types QMX3.P30 and QMX3.P70.

Devices with CO2 measurement are not suitable for safety applications such as gas or smoke alarm.

**Mechanical design**

- The devices are designed for **wall-mounting** (A). A conduit box is optional.
  - **Conduit box**: Keep in mind the dimensions of the conduit box!
  - **Cable conduits on the wall**: Keep a distance of 30 mm (from above) / 20 mm (from below) to the base plate (B), so that the device (C) can be snapped onto the base plate.
- The **base plate** (B) has screw holes for all common flush-mount boxes.
  
  *The screw head height must not exceed 3 mm.*
- The **device** (C) incorporates a KNX / PL-Link plug, a tool plug, and, depending on the type, sensor element, keys, LCD panel, window for the label.
- The cable can be pushed into channels on the rear.
- A KNX plug is enclosed with the devices.

The optional metal-reinforced base plate **QMX3.MP1** (B1) serves for two purposes:

- It is more rigid so that it does not bend when fixed in the middle with two screws only (directly over a conduit box or a cavity wall box).
- It has a removable gray foam plate (B2) for mounting on a 68 mm diameter cavity wall box. The plate compensates for the jutting edge of the box (see mounting, page 5).

**Note**

QMX3.MP1 is supplied in boxes with 20 pcs.
Engineering notes

**KNX PL-Link**
- The room operator units offer plug & play functionality.
- The room operator units receive their power from the connected room automation station via the KNX PL-Link interface.
- KNX PL-Link supports plug & play functionality for pre-configured devices out of the library.
- For KNX PL-Link wiring (topology, allowed cables and cable length), see the Desigo installation guide, CM111043.
- Normally, electrical installers only install the base plate and the KNX PL-Link plug.
- Use the tear-off label with the barcode on the packaging / on the display and stick it on the floor plan to prepare commissioning for several room operator units per room automation station.
  The same barcode label with unique identifier is available on the device.

**KNX S-mode**
Engineering and commissioning is done using the ETS tool
For detail information see Technical basics, P1602.

**KNX LTE-Mode**
Engineering and commissioning is done using the ACS tool.
For detail information see Technical basics, P1602.

**Labels for switches (QMX3.P02, P37)**
- The ABT provides a list of the devices, their function and their location
- Create the labels using a Word template (M1602.1)
- Print the labels on commercially available overhead transparency film
- Cut out the labels
- Insert or exchange the labels as described in the mounting instructions, M1602.

**Mounting and installation**

**Location (sensors, room operator units)**
- The devices are suitable for wall mounting.
- Recommended height: 1.50 m above floor.
- Do not mount the devices in recesses, shelves, behind curtains or doors, or above or near heat sources.
- Avoid direct solar radiation and drafts.
- Seal the conduit box or the installation tube, as air currents can affect sensor readings.
- Adhere to allowed ambient conditions.

**Mounting instructions**
- Mounting instructions M1602 are enclosed with the devices.
Service LED (red)        Programming pin        Tool plug

*) The installing tube must be sealed or cold or warm air may enter the device and cause faulty temperature readings by the internal sensor.

Mounting over a cavity wall box

Use a metal-reinforced base plate QMX3.MP1 instead of the standard base plate delivered with the room operator unit.

1 Fixing the box on the cavity wall.
2 Fixing the QMX3.MP1 base plate on the box using 2 screws.
3 The gray foam plate (removable) compensates for the jutting edge of the box so that the plate is aligned with the wall.
Wall mounting

Remove the breakout on the housing before putting the cable into the gaining channel.

4-wire cables (daisy chain wiring)

Remove the cable coating, as it will not fit in the gaining channel.

Cable ducts on the wall

Keep a distance of 30 mm (from above) / 20 mm (from below) to the base plate, so that the device can be snapped onto the base plate.

Dismounting / service:

QMX3... Wall-mounted sensors and room operator units for KNX PL-Link, KNX S-mode and KNX LTE-Mode
Siemens Building Technologies
Sample icons are available in the label template M1602.1

Information. e.g. on room operator unit location or on room type (free text)

Insert label

Remove label

Installation

- For KNX PL-Link wiring (topology, allowed cables and cable length), see the Desigo TRA installation guide, CM111043.
- Use the correct cables for the KNX PL-Link bus
- Do not interchange the wires of the KNX PL-Link cable.
  - The red terminal is for KNX PL-Link +
  - The gray terminal is for KNX PL-Link –
- For KNX S-mode follow the KNX regulations
- Observe all local installation regulations.

Caution!

- The devices are not protected against accidental connection to AC 230 V.
Prerequisite for commissioning (KNX PL-Link)

The room automation station must be running and an application must be loaded.

Load application on the room automation station

The application is not loaded on the room operator unit, but the room automation station.
Download of the application is done using the SSA-DNT (Pack & Go) or the ABT.
For this purpose (or for service), connect the ABT to the room automation station (USB or Ethernet).

Manual commissioning (KNX PL-Link)

All commissioning work is done via the room automation station, using the SSA-DNT or the ABT.
The ABT is never connected directly to a room operator unit.

When more than one QXM3.P... room operator unit is on the same trunk of the KNX PL-Link bus, manual commissioning is done as follows:

1. Connect the SSA-DNT or the ABT to the room automation station and activate the online commissioning function.
2. Load the web page "KNX PL-Link identification".
   Activate the identification function.
   The room automation station now waits for a signal from the room operator unit.
3. On the room operator unit, simultaneously press the upper left and bottom right button for at least 5 seconds (keys 1 and 8).
4. The "Engineering" page is displayed.
5. Press "Prog. Mode" (Key 2).
   The display changes from "DISA" to "EnAB".
   The tool identifies the current room operator unit that is operated and assigns it.
6. After the device is commissioned, reset the device to programming mode to "disabled" by pressing key 2.

Note: Programming mode resets to “disabled” each time the device restarts.

Addressing

Connection test

1. Press "Conn. Test" (key 3) to test the KNX PL-Link connection.
The display shows the result of the connection test:

2. Press key 8 to return to the engineering page.

Reset to factory setting

Press "Fact. Reset" (Key 4). The device is locked and reboots within 10 seconds.
The room automation station deletes it from its device list. During this time, it is safe to remove the device from the network.
If the bus plug remains connected, the device acts like a newly inserted device requiring again automated or manual configuration.

Note! This operation resets all user preference data and configuration settings to factory default.
This operation is irreversible.
The devices are equipped with a programming pin and a red service LED on the back side (see page 4).

**Addressing**

1. Short press the programming pin (<0.5 s).
   The device goes into programming mode; the service LED is continuously on.
   The tool identifies the current room operator unit that is operated and assigns it.
2. After the device is commissioned, deactivate the programming mode by shortly pressing the programming pin (<0.5 s). The service LED goes off.

   Note: Programming mode resets to “disabled” each time the device restarts.

**Connection test**

1. Medium press the programming pin (>2 s and <20 s) to test the KNX PL-Link connection. After releasing the programming pin, the test of the KNX PL-Link connection starts; the service LED flashes (1/4 s on, 7/4 s off).
   After approx. 10 s, the test result is displayed:
   – If the test is positive, the LED goes on continuously.
   – If the test fails, it flashes (1 s on, 1 s off).
2. Short press the programming pin (<0.5 s) to stop displaying the result of the connection test. The service LED goes off.

**Reset to factory setting**

Long press the programming pin (>20 s). The device is locked and reboots within 10 seconds. The room automation station deletes it from its device list. During this time, it is safe to remove the device from the network.

Note: there is no LED activity during this operation.

If the bus plug remains connected, the device acts like a newly inserted device requiring again automated or manual configuration.

Note! This operation resets all user preference data and configuration settings to factory default.
This operation is irreversible.
When **only one device** is connected to the KNX PL-Link bus, the room operator unit automatically establishes communications with the room automation station, from where the functions are downloaded to the room operator unit (plug & play).

The following routine is executed:

<table>
<thead>
<tr>
<th>Step</th>
<th>With display</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image1.png" alt="Display" /></td>
<td>The Build number and the version number of the device are displayed.</td>
</tr>
<tr>
<td>2</td>
<td><img src="image2.png" alt="Display" /></td>
<td>The Individual Address (IA) is downloaded to the device via KNX PL-Link. &lt;br&gt;This step is skipped if the device is already configured. &lt;br&gt;Note: The configuration file can be downloaded any time; as a result, these characters are displayed every time the room automation station initializes download.</td>
</tr>
<tr>
<td>3a</td>
<td><img src="image3a.png" alt="Display" /></td>
<td>After startup, the device goes to normal operation (example view; picture depends on application in room automation station).</td>
</tr>
<tr>
<td>3b</td>
<td><img src="image3b.png" alt="Display" /></td>
<td>When configuration is faulty, &quot;UCFG&quot; is displayed, along with the temperature that is measured by the local temperature sensor. &lt;br&gt;In this case, manual commissioning must be performed (see above).</td>
</tr>
</tbody>
</table>
Commissioning (KNX)

The devices are equipped with a programming pin and a red service LED for KNX commissioning (see page 4).

Addressing

1. Short press the programming pin (<0.5 s).
   The device goes into programming mode; the service LED is continuously on.
   The tool identifies the current room operator unit that is operated and assigns it.
2. After the device is commissioned, deactivate the programming mode by shortly pressing the programming pin (<0.5 s). The service LED goes off.

   Note: Programming mode resets to “disabled” each time the device restarts.

Reset to factory setting

Long press the programming pin (>20 s). The device is locked and reboots within 10 seconds. The room automation station deletes it from its device list. During this time, it is safe to remove the device from the network.

If the bus plug remains connected, the device acts like a newly inserted device requiring again automated or manual configuration.

   Note! This operation resets all user preference data and configuration settings to factory default.
   This operation is irreversible.
**Operation and display of the room operator unit depend on the control program running on the room automation station.**

### Numbering of the keys

<table>
<thead>
<tr>
<th>Key</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>–</td>
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<td>–</td>
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<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

- Keys 1...8 for room operator units
- Keys 9...16 for switches

### LED display

- (upper right corner)

- • [Green Leaf (green, red: Indicates the Energy efficiency (room operator units)]
- [green, orange, red: Indicates the air quality (multi sensor QMX3.P70)]

### Switches / keys

<table>
<thead>
<tr>
<th>Key</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

- Each line can be a pair of keys or two separate keys
- (Light *), blinds ***, scenes ****)

- • Each key is equipped with an LED (green)

- *) Light
  - The activity of the LEDs depends on the application running on the room automation station

- **) Blinds
  - Always dual key operation (Up / Down)
  - The activity of the LEDs depends on the application running on the room automation station

- ***) Scenes
  - Selecting a predefined scene (short press, <0.5.s). LED is on for 3 s.
  - Saving a changed scene (long press > 5s).
    - LED flashes during 3 s. When it goes off, the user can release the key.

### Display layout of room operator units

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- D
- E

- • A Display (temp., AQ, r.h.)
- • B Setpoint adjustment (temperature) ****)
- • C Operation (fan, operating mode)
- • D Navigation
- • E Presence / Comfort prolongation (display, operation)

- ****) Setpoint adjustment
  - Absolute value (23.5 °C) or relative value (+2 °C)
### Function of the display elements and keys

<table>
<thead>
<tr>
<th>Key</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>An arrow indicates that an element can be operated</td>
</tr>
<tr>
<td>2</td>
<td>Temperature display in °C or °F / humidity in % r.H. / air quality in text, symbol, or ppm of CO₂</td>
</tr>
<tr>
<td>3</td>
<td>Toggling (key 1) between indoor and outdoor measurement (temperature, humidity, CO₂)</td>
</tr>
<tr>
<td>4</td>
<td>Indication that a window is open (connected window switch is active)</td>
</tr>
<tr>
<td>5</td>
<td>Display of the plant state (Heating or Cooling / inactive) Note: No manual switchover! Key 5 is used for Green Leaf</td>
</tr>
<tr>
<td>6</td>
<td>Green Leaf function: Pressing key 5 activates the RoomOptiControl function.</td>
</tr>
<tr>
<td>7</td>
<td>Display of the relative or absolute setpoint for temperature</td>
</tr>
<tr>
<td>8</td>
<td>Adjusting the setpoint using keys 2 and 6</td>
</tr>
<tr>
<td>9</td>
<td>Display of the present fan speed (when automatic)</td>
</tr>
<tr>
<td>10</td>
<td>Adjusting the fan speed using key 3 (or keys 3 and 7 if operation of room operating mode is disabled)</td>
</tr>
<tr>
<td>11</td>
<td>Display of the room operating mode (when automatic)</td>
</tr>
<tr>
<td>12</td>
<td>Adjusting the room operating mode using key 7</td>
</tr>
<tr>
<td>13</td>
<td>Navigation: toggle the display / setpoint setting between temperature / humidity / CO₂, using key 4. The black bar points to the displayed information.</td>
</tr>
<tr>
<td>14</td>
<td>Operation of the occupancy state (presence switch, Comfort prolongation)</td>
</tr>
<tr>
<td>15</td>
<td>Activate the Comfort prolongation using key 8 (only available if enabled)</td>
</tr>
<tr>
<td>16</td>
<td>Engineering functions (press keys 1 and 8 simultaneously during 5 s) - Programming mode (key 2), same function as programming pin - Connection test (Key 3) - Reset device to factory settings (key 4) <strong>Note: This operation is irreversible!</strong></td>
</tr>
<tr>
<td>17</td>
<td>Indicates that the room operator unit is locked by the system.</td>
</tr>
<tr>
<td>18</td>
<td>Operation is disabled</td>
</tr>
<tr>
<td>19</td>
<td>The display in line 1 shows the temperature from bus</td>
</tr>
</tbody>
</table>

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**QMX3... Wall-mounted sensors and room operator units for KNX PL-Link, KNX S-mode and KNX LTE-Mode**

**Siemens Building Technologies**

**CM2N1602en_03**

**2014-09-12**
Maintenance

Note!
The device can be cleaned with off-the shelf, solvent-free cleaning agents. Do not use mechanical aids (rough sponge or similar materials) – only a soft, damp cloth.

Technical data

<table>
<thead>
<tr>
<th>Supply voltage</th>
<th>Operating voltage range</th>
<th>KNX / PL-Link DC 21…30 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>The device receives its power from the connected room automation station via the KNX / PL-Link interface.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power consumption</th>
<th>Max 7.5mA at DC 24 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>QMX3.P02</td>
<td>Max 7.5mA at DC 24 V</td>
</tr>
<tr>
<td>QMX3.P30</td>
<td>Max 10mA at DC 24 V</td>
</tr>
<tr>
<td>QMX3.P34</td>
<td>Max 15mA at DC 24 V</td>
</tr>
<tr>
<td>QMX3.P37</td>
<td>Max 15mA at DC 24 V</td>
</tr>
<tr>
<td>QMX3.P70</td>
<td>Max 15mA at DC 24 V</td>
</tr>
<tr>
<td>QMX3.P74</td>
<td>Max 15mA at DC 24 V</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating data</th>
<th>Temperature sensor (all types)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring element</td>
<td>NTC resistance sensor</td>
</tr>
<tr>
<td>Measuring range</td>
<td>0…50 °C</td>
</tr>
<tr>
<td>Measuring accuracy (5…30 °C)</td>
<td>±0.8 K</td>
</tr>
<tr>
<td>Measuring accuracy (25 °C)</td>
<td>±0.5 K</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relative Humidity Sensor (r.h.) (QMX3.P74;QMX3.P70)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
</tr>
<tr>
<td>Accuracy (20%...80%)</td>
</tr>
<tr>
<td>Accuracy (0%...20%, 80%...95%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CO₂ Sensor (QMX3.P74;QMX3.P70) *)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
</tr>
<tr>
<td>Measuring accuracy at 23 °C and 1013 hPa</td>
</tr>
<tr>
<td>for measured value 400…2000 ppm</td>
</tr>
<tr>
<td>for measured value &gt;2000 ppm</td>
</tr>
<tr>
<td>Temperature dependency</td>
</tr>
<tr>
<td>Pressure dependency</td>
</tr>
<tr>
<td>Long-term drift</td>
</tr>
<tr>
<td>Service life</td>
</tr>
</tbody>
</table>

*) Notes on CO₂ sensor

- **Function**: The sensor determines the CO₂ concentration via infrared absorption measurement (NDIR). The sensor is maintenance free in normal environments, thanks to the built-in self-correcting ABC (Automatic Baseline Correction) algorithm. This algorithm keeps track of the sensor’s lowest reading within 8 days and corrects for any drift detected. The sensor also contains self-diagnostics to assure proper operation during lifetime.

- **Use**: Normal environments, such as offices, class rooms, hotel rooms, or other non-permanently occupied areas, typically reach at least once a week the CO₂ concentration of fresh air of 400 ppm. However, exposure to a lowest CO₂ concentration other than fresh air, or incorrect altitude parameter setting, might result in reduced accuracy and incorrect operation.

- Rough handling during **transport, storage or mounting** might adversely affect accuracy during the first days of operation.

- The specified **accuracy** is reached after 25 days of continuous operation.
Display  
Type  
Segment LCD  
Information displayed depends on the application in the room automation station.
- Room temperature, humidity, CO₂  
- Setpoint adjustment  
- Control mode  
- Manually selected fan speed  
- Control sequence  
- Scenes (LED next to the button)  
- etc.

Ports/interfaces  
Type of port between room automation station and room operator unit  
KNX / PL-Link  
Baud rate  
9.6 kbps  
Standard KNX plug  
Wire diameter : 0.8 mm, max. 1.0 mm (solid conductors only)  
Cable type  
Solid conductors 2-core, twisted pair  
Single cable length (from room automation station to room operator unit)  
< 1000 m  
Cables must comply with KNX specifications, see TRA Install. manual, CM111043 ¹)

Housing protection  
Protection standard as per EN 60529  
IP 30  
Protection class  
Insulation protection class  
III  
Ambient conditions  
IEC 721  
Normal operation  
Transport  
Environmental conditions  
Class 3K5  
Class 2K3  
Temperature  
0...50 °C  
– 25...70 °C  
Humidity  
< 85 % rh  
< 95 % rh  
Mechanical conditions  
Class 3M2  
Class 2M2

Standards and directives  
EU conformity (CE)  
CM2T1602xx ¹)  
UL compliance  
UL916  
FCC compliance  
Part 15 of the FCC rules  
CSA compliance  
C22.2 No 205 – Signal equipment  
C22.2 No 0 – General Requirements  
RCM Mark conformity (EMC)  
AS/NZS 61000-6-3  
The product environmental declaration CM2E1602 ¹) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal)

Color  
Front housing  
Titanium white similar to RAL9010

Weight [g]  
<table>
<thead>
<tr>
<th></th>
<th>QMX3</th>
<th>P02</th>
<th>P30</th>
<th>P34</th>
<th>P37</th>
<th>P70</th>
<th>P74</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator unit</td>
<td>91</td>
<td>84</td>
<td>122</td>
<td>124</td>
<td>97</td>
<td>132</td>
<td></td>
</tr>
<tr>
<td>Base plate</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Packaging</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>175</td>
<td>168</td>
<td>206</td>
<td>208</td>
<td>181</td>
<td>216</td>
<td></td>
</tr>
</tbody>
</table>

Connection

R1 QMX3... room operator unit
N1 Controller, actuator

\(\checkmark\) = Twisted pair

**KNX / PL-Link plug**

+ Red \(\text{KNX PL-Link (positive)}\)
- Gray \(\text{KNX PL-Link (negative)}\)

**Note!** Wires are NOT interchangeable!
The device is protected against faulty wiring, but communications does not work on interchanged wires.

**Tool plug**
(2.5 mm Jack)

**RJ45 plug of the tool cable**

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE+, KNX</td>
<td>CE-, KNX</td>
<td>N.C.</td>
<td>N.C.</td>
<td>Voltage 16 V</td>
<td>N.C.</td>
<td>Ident'pin</td>
<td>GND</td>
</tr>
</tbody>
</table>

**Connect the tool**

Connect the ABT to load the application in the room automation station, or for service purposes:
- Directly to the room automation station
- To the room unit using the tool cable and the OCI702 service interface (see data sheet A6V10438951)
Dimensions room operator unit

80.5

88.4

133.4

115

18

26 26.5 28.2 28.2 60 56.5 17.5 11.6 13.1 78.5

1602M01_01

QMX3... Wall-mounted sensors and room operator units for KNX PL-Link, KNX S-mode and KNX LTE-Mode
Siemens Building Technologies

CM2N1602en_03
2014-09-12
The device is considered an electronics device for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.