



**SIEMENS**

The world-wide  
standard for  
home and  
building control



**KNX**

# Install intelligent room automation flexibly and future-proofed

Multifunctional, based on KNX room operation devices for the individual requirements of all disciplines in rooms

## Intuitive operation for the entire room automation

Room control units QMX3 with regulation features are available in six device versions, which are designed to work together, for controlling HVAC and electrical applications. They regulate the temperature, humidity and the carbon dioxide (CO<sub>2</sub>) concentration in the room in an energy-efficient way based on specific requirements.

Customizable pairs of buttons cover electrical requirements with switching, dimming and scene features. Thus scenes, which simultaneously trigger several different actions in the room, can be programmed for various working situations and changed at any time, for scenes like Meeting, Presentation, Break or Unoccupied Room.

## Simple installation optimizes costs

They cover an extremely wide range of room automation requirements. Bundling all functions in a single device serves to reduce to a minimum the effort required for installation and configuration. The room control units with regulation features can easily be integrated in a KNX system via the included bus connector. Wall mounting even allows for flexible positioning of the devices in the room.

## Attractive design with intelligent technology

An LCD display and touch keys round off the design. Room users are informed of energy-efficient and comfortable air quality regulation via an LED indicator.

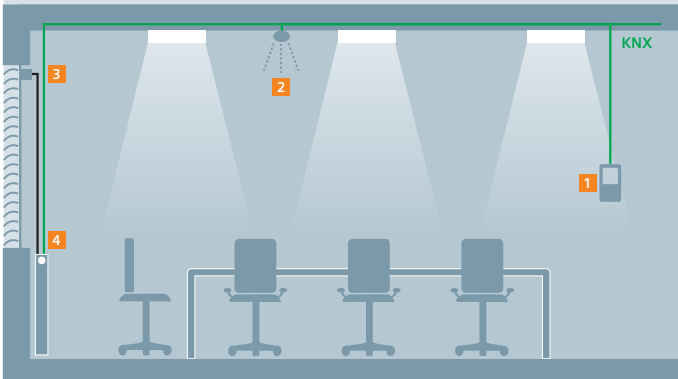
## Highlights

- Uniform device range for multifunctional room requirements
- Attractive design for wall mounting – not bound to frame lines
- Fast, highly precise measurement and regulation increase the level of comfort and energy efficiency in the room
- Simplified and intuitive operation due to scene control via LCD display

Answers for infrastructure.

# Application examples

## Room temperature regulation with operation



### Key\*

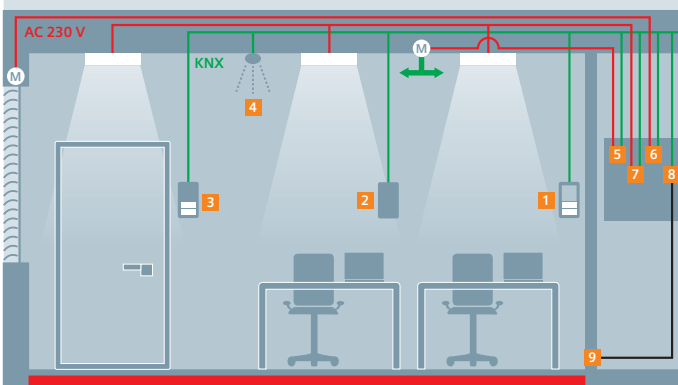
- 1 Room control unit QMX3.P34
- 2 Presence detector UP 258
- 3 Electromotive valve actuator AP 562/02
- 4 Window contact S 290

\*Possible combination of components

This application is recommended for smaller offices with a single heater. The room control unit measures and regulates room temperature and sends the regulation signal to the valve drive actuator via KNX bus.

In addition to this, window contacts and presence detectors influence the regulation behavior of the room control unit and increase the room's energy efficiency. For example, if the room is unoccupied or if the window is open, the radiator valve closes and reduces the room temperature automatically.

## Presence-dependent room climate regulation with operation of all disciplines



### Key\*

- 1 Room control unit QMX3.P37
- 2 Room control unit QMX3.P70
- 3 Room control unit QMX3.P02
- 4 Presence detector UP 258
- 5 Switch actuator N 562/11 for fan
- 6 Shutter/blind actuators N 523/04
- 7 Universal dimmer N 528/31 with submodule N 528/41
- 8 Thermal drive actuator N 605 for up to 6 rooms
- 9 Electrothermal actuator STA23 (for up to 4 rooms)



\*Possible combination of components

This application is especially suitable for rooms with several heaters, e.g. in offices, lecture halls or conference rooms. The room control unit (1) measures and regulates room temperature and sends the regulation signal to the thermal drive actuator (8) via KNX bus. Together with the integrated room temperature regulation, the sensor thus provides for a comfortable room climate. The room control unit (2) measures the air quality (CO<sub>2</sub>) in the room, regulates



ventilation as required and thus saves energy and costs. The buttons on the room control unit (1 and 3) can be used to control lighting and shading as well as scenes for example.

Additional room control units (3) can also be connected, e.g. in large rooms with several doors.

### Technical data





Type	Description
<b>QMX3..</b>	<p><b>QMX3.. room sensor</b></p> <ul style="list-style-type: none"> <li>• Wall mount sensor and room operator unit with KNX communications</li> <li>• Temperature control, adjustable as PWM control and/or modulating control (PID algorithm) for purely heating mode, purely cooling, heating and cooling mode</li> <li>• Operating modes can be changed via KNX: <ul style="list-style-type: none"> <li>- Comfort mode</li> <li>- Pre-comfort</li> <li>- Energy savings and protection mode</li> </ul> </li> <li>• 3 independently adjustable switching values for CO<sub>2</sub> concentration and relative air humidity for ventilation control: <ul style="list-style-type: none"> <li>- Output for 1, 2 or 3-stage fans (humidity and CO<sub>2</sub>)</li> <li>- Output for 1, 2 or 3-point positioning signal (humidity and CO<sub>2</sub>)</li> <li>- Setpoint adjustable via KNX or display of room temperature and relative humidity and CO<sub>2</sub> concentration</li> </ul> </li> </ul> <ul style="list-style-type: none"> <li>• Adjustable commissioning and control parameters for radiator heating slow and fast, floor heating slow and fast</li> <li>• Temperature measurement range: 0...50 °C</li> <li>• Integrated bus coupling</li> <li>• Bus connection via bus terminal</li> <li>• Power supplied via KNX bus, bus load &lt; 15 mA</li> <li>• Maintenance free</li> <li>• Wall mounting, covers flush mount boxes</li> <li>• IP class: IP30</li> <li>• Dimensions (L x B x T): ca. 133 x 88 x 18 mm</li> <li>• Color: RAL9003, signal white</li> </ul>
Variants	
 <b>QMX3.P30</b>	<p><b>QMX3.P30 room sensor</b></p> <ul style="list-style-type: none"> <li>• Room temperature acquisition</li> </ul>
 <b>QMX3.P70</b>	<p><b>QMX3.P70 room sensor</b></p> <ul style="list-style-type: none"> <li>• Temperature sensor and relative air humidity and air quality, including air quality indicator</li> <li>• Air quality is indicated by a 3-colored LED (red (poor), orange (average) and green (good))</li> <li>• Measuring range for relative humidity: 10...95%</li> <li>• Measuring range for air quality (CO<sub>2</sub>): 400...2000 ppm</li> </ul>

### Selection and ordering data

Type	Version	DT	Order No.	Price per PU	PU (Unit, Set, M)	PS*/P.unit	PG	Weight per PU approx.
kg								
Variants								
	<b>QMX3.P30</b>	<b>QMX3.P30 room sensor</b>	A	<b>S55624-H103</b>	1	1 ST	A06	0,100
S55624-H103								
	<b>QMX3.P70</b>	<b>QMX3.P70 room sensor</b>	A	<b>S55624-H104</b>	1	1 ST	A06	0,190
S55624-H104								

\* This amount or a multiple thereof can be ordered.





### Technical data

Type	Description
<b>QMX3..</b>	<p><b>QMX3.. sensor and room operator unit</b></p> <ul style="list-style-type: none"> <li>• Wall mount sensor and room operator unit with KNX communications</li> <li>• Temperature control, adjustable as PWM control and/or modulating control (PID algorithm) for purely heating mode, purely cooling, heating and cooling mode</li> <li>• Purely cooling operation, heating and cooling mode</li> <li>• Operating modes switchable via KNX or display: <ul style="list-style-type: none"> <li>- Comfort mode</li> <li>- Pre-comfort</li> <li>- Energy savings and protection mode</li> </ul> </li> <li>• 3 independently adjustable switching values for CO<sub>2</sub> concentration and relative air humidity for ventilation control: <ul style="list-style-type: none"> <li>- Output for 1, 2 or 3-stage fans (humidity and CO<sub>2</sub>).</li> <li>- Output for 1, 2 or 3-point positioning signal (humidity and CO<sub>2</sub>)</li> <li>- Setpoint adjustable via KNX or display of room temperature and relative humidity and CO<sub>2</sub> concentration</li> </ul> </li> </ul> <p>Adjustable commissioning and control parameters for radiator heating slow and fast, floor heating slow and fast</p> <ul style="list-style-type: none"> <li>• Temperature measurement range: 0...50 °C</li> <li>• Room temperature acquisition</li> <li>• Integrated bus coupling</li> <li>• Bus connection via bus terminal</li> <li>• Power supplied via KNX bus, bus load &lt; 15 mA</li> <li>• Maintenance free</li> <li>• Wall mounting, covers flush mount boxes</li> <li>• IP class: IP30</li> <li>• Dimensions (L x B x T): ca. 133 x 88 x 18 mm</li> <li>• Color: RAL9003, signal white</li> </ul>
Variants	
 <b>QMX3.P34</b>	<p><b>QMX3.P34 sensor and room operator unit</b></p> <ul style="list-style-type: none"> <li>• Multifunctional display/operator unit for KNX with LCD display</li> <li>• 8 touchkeys for horizontal operation</li> <li>• Signal for acoustic feedback on touch operation</li> <li>• Displays room temperature, room humidity, and room air quality</li> <li>• Displays outside temperature and outside humidity</li> </ul> <ul style="list-style-type: none"> <li>• Adjust setpoints for temperature, humidity, and air quality</li> <li>• Manual fan operation and operating modes</li> <li>• Go to display pages for temperature, humidity, and air quality</li> <li>• Presence button of comfort extension button</li> </ul>
 <b>QMX3.P74</b>	<p><b>QMX3.P74 sensor and room operator unit</b></p> <ul style="list-style-type: none"> <li>• Multifunctional display/operator unit for KNX with LCD display</li> <li>• 8 touchkeys for horizontal operation</li> <li>• Signal for acoustic feedback on touch operation</li> <li>• Displays room temperature, room humidity, and room air quality</li> <li>• Displays outside temperature and outside humidity</li> <li>• Adjust setpoints for temperature, humidity, and air quality</li> </ul> <ul style="list-style-type: none"> <li>• Manual fan operation and operating modes</li> <li>• Go to display pages for temperature, humidity, and air quality</li> <li>• Presence button or comfort extension button</li> <li>• Multisensor for temperature and relative humidity and air quality</li> <li>• Measuring range for relative humidity: 10...95%</li> <li>• Measuring range for air quality (CO<sub>2</sub>): 400...2000 ppm</li> </ul>
 <b>QMX3.P02</b>	<p><b>QMX3.P02 sensor and room operator unit</b></p> <ul style="list-style-type: none"> <li>• With 8 touch sensitive buttons and horizontal operation</li> <li>• Labeling on a printable foil; insert into the unit</li> <li>• Per button, the following functions switching, changeover, switch on, switch off, turn on and off with selectable raising or falling slope, single pushbutton dimming, 8-bit scene control, 8-bit value, percentage value</li> <li>• Additional, selectable functions (time delay adjustable from 0.5...5.0 seconds) depending on the selected main function</li> <li>• Additional functions dependent on the selected main function per button for switching on, off, 8-bit value, percentage value, query 8-bit scene</li> </ul> <ul style="list-style-type: none"> <li>• Per button pair, select function 2-button dimming with stop telegram</li> <li>• Integrated 8-bit scene control to query and save scenes for up to 8 scene channels</li> <li>• Assignment of up to 8-bit scene numbers (1...64) per scene channel</li> <li>• User adjustable scene that can be saved in the 8-bit scene control</li> <li>• Brightness of all status LEDs configurable using parameters or via the object</li> <li>• Selectable function per status LED of continuous off, LED continuous on</li> </ul>
 <b>QMX3.P37</b>	<p><b>QMX3.P37 sensor and room operator unit</b></p> <ul style="list-style-type: none"> <li>• Multifunctional display/operator unit for KNX with LCD display</li> <li>• 16 touchkeys for horizontal operation</li> <li>• Signal for acoustic feedback on touch operation</li> <li>• Displays room temperature, room humidity, and room air quality</li> <li>• Displays outside temperature and outside humidity</li> <li>• Adjust setpoints for temperature, humidity, and air quality</li> <li>• Manual fan operation and operating modes</li> <li>• Go to display pages for temperature, humidity, and air quality</li> <li>• Presence button or comfort extension button</li> <li>• Labeling on a printable foil; insert into the unit</li> <li>• Per button, the following functions switch on, switch off, turn on and off with selectable raising or falling slope, single pushbutton dimming, 8-bit scene control, 8-bit value, percentage value</li> </ul> <ul style="list-style-type: none"> <li>• Per button pair, select function 2-button dimming with stop telegram</li> <li>• Additional, selectable functions (time delay adjustable from 0.5...5.0 seconds) depending on the selected main function</li> <li>• Additional functions dependent on the selected main function per button for switching on, off, 8-bit value, percentage value, query 8-bit scene</li> <li>• Integrated 8-bit scene control to query and save scenes for up to 8 scene channels</li> <li>• Assignment of up to 8-bit scene numbers (1...64) per scene channel</li> <li>• User adjustable scene that can be saved in the 8-bit scene control</li> <li>• Brightness of all status LEDs configurable using parameters or via the object</li> <li>• Selectable function per status LED of continuous off, LED continuous on</li> </ul>

# Heating, cooling, ventilation, air-conditioning

## Room temperature controller

### Selection and ordering data

Type	Version	DT	Order No.	Price per PU	PU (Unit, Set, M)	PS*/P.unit	PG	Weight per PU approx. kg
Variants								
	<b>QMX3.P34</b> QMX3.P34 sensor and room operator unit	A	<b>S55624-H105</b>		1	1 ST	A06	0,220
	<b>QMX3.P74</b> QMX3.P74 sensor and room operator unit	A	<b>S55624-H106</b>		1	1 ST	A06	0,230
	<b>QMX3.P02</b> QMX3.P02 sensor and room operator unit	A	<b>S55624-H107</b>		1	1 ST	A06	0,190
	<b>QMX3.P37</b> QMX3.P37 sensor and room operator unit	A	<b>S55624-H108</b>		1	1 ST	A06	0,140

\* This amount or a multiple thereof can be ordered.

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

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#### **Answers for infrastructure.**

Our world is undergoing changes that force us to think in new ways: demographic change, urbanization, global warming and resource shortages. Maximum efficiency has top priority – and not only where energy is concerned. In addition, we need to increase comfort for the well-being of users. Also, our need for safety and security is constantly growing. For our customers, success is defined by how well they manage these challenges. Siemens has the answers.

**“We are the trusted technology partner for energy-efficient, safe and secure buildings and infrastructure.”**