

# INSTRUCTIONS FOR CONTROLLING MANDÍK AIR CONDITIONING UNITS FROM QMX3.P34, QMX3.P37 & QMX3.P74 WALL-MOUNTED DEVICES

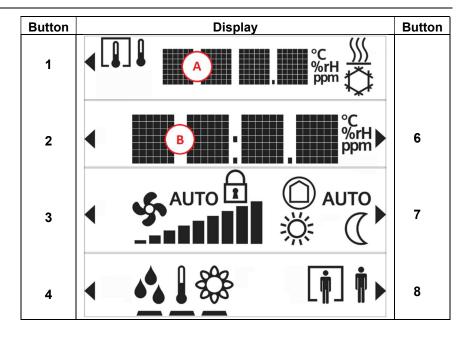
6/2023





#### Display and operation 4)

### **Functions of display** symbols and buttons



Symbol 1)	Function				
4/▶	Displayed arrows indicate that the element can be controlled.				
A %C°F %rH ppm	Shows the temperature in °C, humidity in % RH, and air quality in ppm CO2.				
<b>↓</b> [] / [] [	Switching (button 1) between indoor and outdoor values (temperature, humidity, air quality).				
◆ B °C°F %rH ppm	• Shows the relative or absolute setpoints for temperature in °C, humidity in % RH, and air quality in ppm CO2. Setpoint correction with buttons 2 and 6.				
AUTO AUTO	<ul> <li>Shows the current supply fan speed. Sets the fan speed with button 3 (only when temperature navigation is selected).</li> <li>AUTO O Automatic fan speed corresponds to the current operating mode (Comfort or Attenuation) in the controller.<sup>2)</sup></li> </ul>				
© auto	Displaying and changing the type of operation with button 7 (only when temperature navigation is selected).  AUTO Operation set by the schedule defined in the controller.  Comfort mode.  Comfort mode.  Comfort mode.  Comfort mode.				
∭/♦	Device status (heating or cooling / inactive).				
	Navigation: display switching and value setting options (humidity, temperature, air quality) with button 4. The line under the icon draws attention to the selected information.				
[n]/□n•	Selection of occupancy status with button 8 (occupancy switch, Comfort mode enforcement).				
1	Master-level operation block indicator				

<sup>&</sup>lt;sup>1)</sup> The symbols and operation of the room operator unit depends on the control application in the Climatix controller.

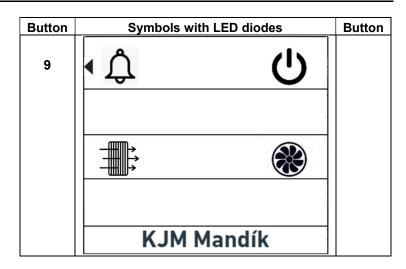
<sup>&</sup>lt;sup>2)</sup> Speeds for *Comfort* and *Economy* modes are set in the Climatix controller.

<sup>&</sup>lt;sup>3)</sup> Function of the *Off* mode is specified in the Climatix controller menu. The temperature setpoint and fan speed cannot be adjusted in this mode.

4) This description is valid for application version 33.02AHU and higher in the Climatix controller.



Functions of LEDs with symbols and buttons (only for QMX3.P37)



Symbol LED diode	Functions					
۸	Indicates a device alarm, alarms are acknowledged with button 9:					
77	<ul> <li>Flashing LED – indicates a new alarm.</li> </ul>					
	LED on – indicates an acknowledged alarm.					
000000	Indication of device operation:					
Ψ Φ	<ul> <li>LED on – device is on in standard Comfort or Attenuation mode.</li> </ul>					
	<ul> <li>LED flashing – device is on in the temporary Tempering mode.</li> </ul>					
	LED showing filter status during fan operation:					
	○ LED on – clean filter.					
	○ LED flashing – dirty filter.					
	LED showing fan status:					
	○ LED on – fan on.					
	○ LED flashing – fan malfunction.					

### Ranges of required parameters

Parameter	Minimum	Maximum	Step	
Temperature	15 °C	28 °C	0.1 °C	
Relative humidity	10 %	95 %	1 %	
Air quality	400 ppm	2000 ppm	100 ppm	
Fan speed	0 %	100 %	10 %	

## **Climatic controller settings**

Functions	Climatic controller menu
Enabling control from QMX3 series room operator units.	2 AHU Mandík
	2 Configuration 5)
	RoomUnit QMX3
Fan control.  If QMX3 is not selected in <i>TypeControl</i> , then fan speed cannot be changed smoothly from the room operator unit.	2 AHU Mandík 2 Configuration <sup>5)</sup>
	SupplyFan EC
	>TypeControl QMX3
	ExhaustFan EC
	>TypeControl QMX3

 $<sup>^{5)}\,\</sup>mbox{The controller}$  must be reset after a change in values.

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<ul> <li>Off mode options entered from the room operator unit:</li> <li>When Off is selected, the air conditioning unit is shut down.</li> </ul>	2 AHU Mandík
When <i>Tempering</i> is selected, the air conditioning unit may switch into <i>FrostProtect</i> or <i>Freecooling</i> subsidiary modes based on pre-defined parameters.	2   ComponentsMachine 2   Others QMX3-Off Off
20000 011 p. 0 201110 01010	2 Others QMX3-Off Tempering
Connecting temperature sensors from the room operator unit to the Climatic controller for space temperature control.  Temperature corrections made in the Climatic controller do not appear in the measured temperature shown on the QMX3 display.	2 AHU Mandík 2 AssignmentInputs/Outputs 2 Temperatures Room QMX3
Connecting relative humidity sensors from the room operator unit to the Climatic controller for space humidity control.  This only applies to QMX3.P74 room operator units.  Relative humidity corrections made in the Climatic controller do not appear in the measured relative humidity shown on the QMX3 display.	2 AHU Mandík 2 AssignmentInputs/Outputs 2 Humidity Room QMX3
Connection of CO <sub>2</sub> sensor from the room operator unit to the Climatic controller for space air quality control This only applies to QMX3.P74 room operator units. Air quality corrections made in the Climatic controller do not appear in the measured air quality shown on the QMX3 display.	2 AHU Mandík 2 AssignmentInputs/Outputs 2 AirQuality Sensor QMX3

## Overview of room operator unit types

			Type designation	Properties					
			Temperature sensor	Relative humidity sensor	CO <sub>2</sub> sensor	Backlit display and touch keys	Touch keys with LED indicator	Window for labels	
Room operator units	205 -	- 205 205	QMX3.P34 QMX3.P34-1BSC	Х			x		
	* enp 205 - 246 * *	=	QMX3.P74 QMX3.P74-1BSC	Х	X	X	Х		
	205 - 46 E.	enc 205 -	QMX3.P37 QMX3.P37-1BSC	Х			X	Х	X