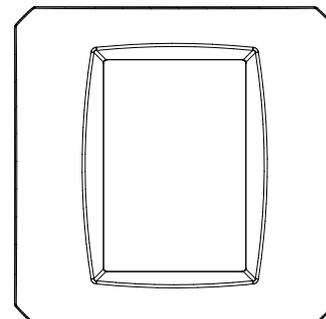


AMR-OP70/xx

Programmable on-wall control unit

- LCD monochrome graphical display
- Touch screen
- RS485 communication line
- Room temperature measurement
- On-wall mounting
- Power supply 24 V DC



TECHNICAL DATA

Display	Graphical monochrome LCD
Resolution	(64 × 132) pixels (asymmetric pixel)
Display area	(58 × 38) mm
Backlight / lifetime	LED / min. 50 000 hours *)
Temperature measuring	Electronically
Measuring range	-10 °C to 50 °C
Temperature measuring precision	±0.5 °C
Settling time	45 min.
Control	
Touch panel	Resistive
Communication	RS485
Galvanic separation	No
Number of devices on RS485 segment	256
Power supply	10 V DC to 30 V DC
Maximum power consumption	40 mA at 24 V DC
Others	
Ingress protection rate	IP20
Operating temperature range	-10 °C to 50 °C
Maximum ambient humidity	< 95 %, non-condensing
Mounting	On wall
Weight	105 g
Dimensions (w × h × d)	(90 × 90 × 32) mm
Programming	DetStudio / EsiDet

*) Luminance drop to 50 %

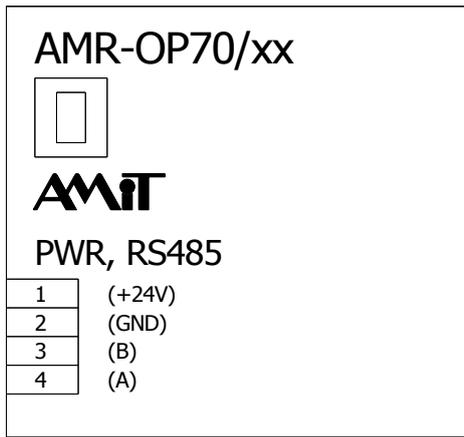
ORDERING INFORMATIONS

AMR-OP70/xx	On-wall control unit, datasheet, warranty card
MN1	Tool for AMR-OP70/xx front cover dismounting

	rear cover color		front cover color	
AMR-OP70/01	grey	RAL 7005	white	RAL 9003
AMR-OP70/02	ivory	RAL 1013	ivory	RAL 1013
AMR-OP70/03	grey	RAL 7005	grey	RAL 7005
AMR-OP70/04	white	RAL 9003	white	RAL 9003
AMR-OP70/05	russet	RAL 8015	russet	RAL 8015
AMR-OP70/06	pale blue	RAL 5014	pale blue	RAL 5014
AMR-OP70/07	dark blue	RAL 5011	dark blue	RAL 5011

Note: small depressions at the surface and color inhomogeneity are not grounds for warranty claim.

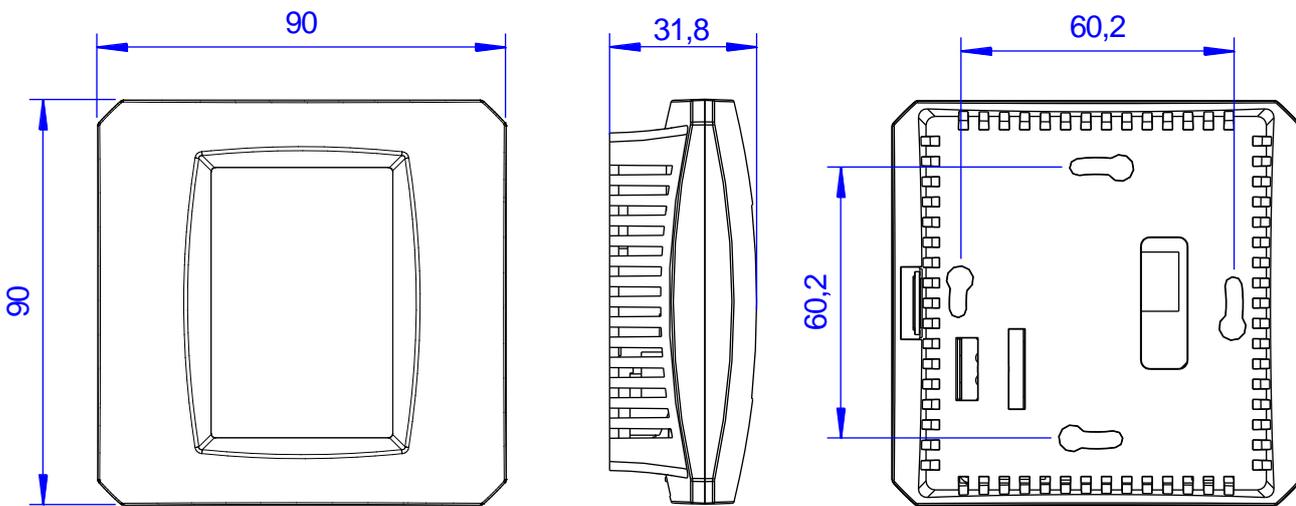
RECOMMENDED DRAWING SYMBOL



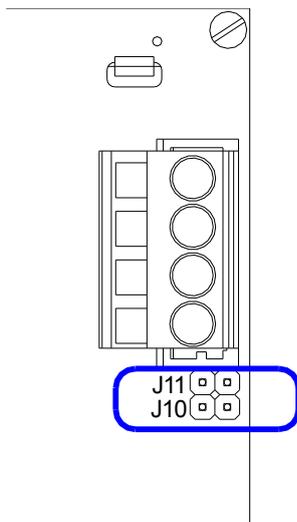
TERMINAL'S IDENTIFICATION

Terminal	Meaning
1	Power supply +24 V DC
2	Ground
3	RS485 line, signal B
4	RS485 line, signal A

PHYSICAL DIMENSIONS



RS485 CONFIGURATION JUMPERS



Each unit on communication line RS485 must have correctly set termination resistor. To set the termination, the configuration jumpers located beside the RS485 connector are used. If the configuration jumpers are set, the termination is connected. The terminal stations on the line must always have connected the termination, continuously disconnected.

Jumper	Meaning
J10	Idle state + signal A termination
J11	Idle state + signal B termination

AMR-OP70/xx

Programmable on-wall control unit

APPLICATION VERSIONS

Version 1

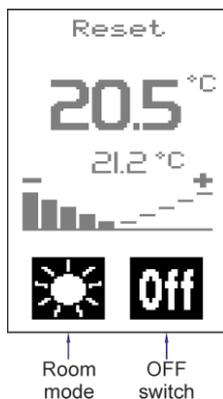


Room mode

Highlighted icon signals selected mode. Mode is changed by pressing the individual icons.

Icon	Meaning	Description
	Comfort	Regulation is on constant (comfort) temperature.
	Decrease	Regulation is on constant (decreased) temperature.
	Auto	Regulation is according to the adjusted time plan modified by the correction.

Version 2



Room mode, fan mode

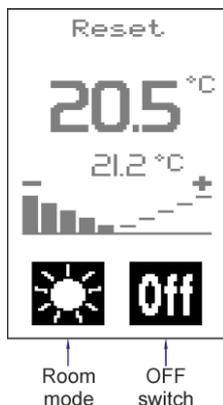
Press the icon with the room mode to switch between three statuses.

Icon	Meaning	Description
	Comfort	Regulation is on constant (comfort) temperature.
	Decrease	Regulation is on constant (decreased) temperature.
	Auto	Regulation is according to the adjusted time plan modified by the correction.

Press the icon with fan mode to switch between five statuses.

Icon	Meaning	Description
	OFF	The ventilator is disconnected.
	Auto	The ventilator is regulated automatically.
	Speed 1	The ventilator has speed 1.
	Speed 2	The ventilator has speed 2.
	Speed 3	The ventilator has speed 3.

Version 3



Room mode, switch

Press the icon with the room mode to switch between three statuses.

Icon	Meaning	Description
	Comfort	Regulation is on constant (comfort) temperature.
	Decrease	Regulation is on constant (decreased) temperature.
	Auto	Regulation is according to the adjusted time plan modified by the correction.

Press the icon with switch to switch between two statuses.

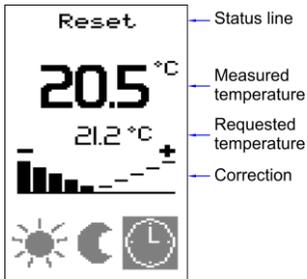
Icon	Meaning	Description
	Off	OFF switch.
	On	ON switch.

AMR-OP70/xx CONTROL UNIT MAINTAINCE

Basic screen

Basic screen look depends on application version. Version is set by the service organization during the installation. Part of basic screen is common for all versions, part depends on chosen version.

Common items

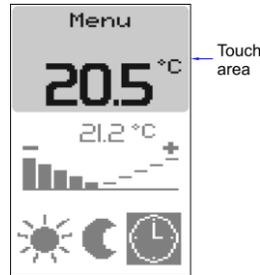


Press the right or the left part of the bar-graph to change the correction value to plus or minus. After each change dashes are displayed instead of the requested temperature until receiving a new value from the superior control system.



User menu

User menu is showed up by pressing the display in the under shown area.



Status line

Status	Meaning
Reset	The control unit was restarted; no communication took place from restart.
Error	Error in communication. Longer than Guard Time time expired from the last communication.
Menu	Error-free running of the unit.

Measured temperature

Display of measured temperature in the area does not depend on communication; always displayed.



Requested temperature

The requested temperature is sent by the superior control system. During correction change dashes are displayed until new requested value is received from the superior control system. Value could be shown with several second delays.

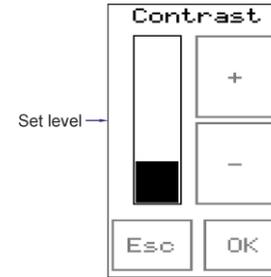


Correction bar graph

The correction bar graph displays only in the **Auto** mode for the room. In other modes (**Decreased** and **Comfort**) it is not displayed.

Contrast

The **Contrast** of the display can be set here.



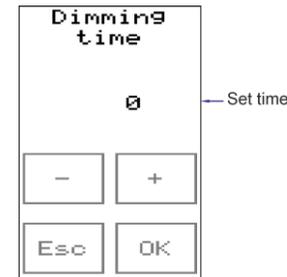
Language

By using the **Language** item it is possible to change between Czech and English texts on the on-wall control unit.



Display

By using the **Display** item it is possible to set the time during which the screensaver is activated.

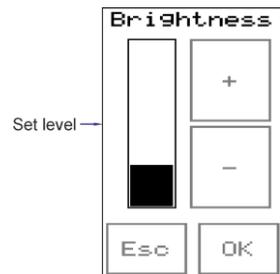


It is possible to set the following values:

Value	Meaning
-1	The screensaver is disabled.
10 to 120	Time in seconds until the screensaver is activated.

Brightness

The **Brightness** of the display can be set here.



Help

By using the **Help** item the firmware version used in the wall control unit is displayed.

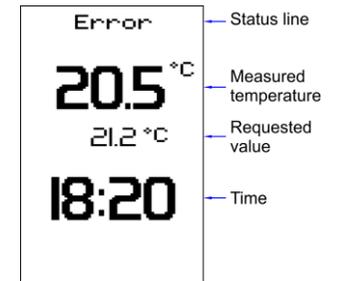


Return

Select **Return** to return to the basic screen for the on-wall control unit.

Screensaver

If enabled in the menu (via **Display** item), after a set time of inactivity the screensaver is activated (the screensaver screen is displayed and the screen backlight is deactivated).



After first pressing of the screen, the backlight is activated and after second pressing the basic screen is displayed.



AMIT, spol. s r.o. declare that the product AMR-OP70/xx is in identity with requirement and other clauses of directive 1999/5/ES.



Note: Despite the fact that this product is without any dangerous materials, please, do not put it to common waste container, but take it to collection spot for electronic waste. Further information is available on www.amit.cz in section Technical advices.

Detailed information can be found in operational manual ([amr-op70xx_g_en_xxx.pdf](#)). Documentation and examples can be downloaded from www.amit.cz or they are placed on company's CD.