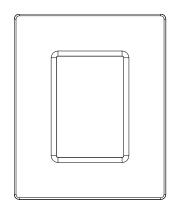


AMR-OP71B/xx

Programmable on-wall controller

- **Graphical black & white LCD**
- Touch screen operation
- RS485 communication interface
- Room temperature measurement
- On-wall mounting
- Power supply 24 V DC



TECHNICAL DATA

Display	Graphical black & white LCD	
Resolution	(64 × 132) pixels (non-symmetric point)	
Display area	(58 × 38) mm	
Backlight / lifetime	LED/min. 50 000 hours *)	
Temperature measurement	Electronically	
Measurement range	-10 °C to 50 °C	
Temperature measurement precision	±0.5 °C	
Settling time	45 min.	
RTC	CPU	
Precision (25 °C)	±20 ppm	
RAM + RTC back-up	Replaceable lithium battery CR1632	
Battery lifetime	4 years in normal environment	
Operation		
Touch panel	Resistive	
Communication	RS485	
Galvanic isolation	No	
Number of devices on segment RS485	256	
Power supply	10 V DC to 30 V DC	
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 the wall	
Weight	0.12 kg	
Dimensions (w × h × d)	(90 × 110 × 29) mm	
Programming	DetStudio / EsiDet	

^{*)} Luminance drop to 50 %

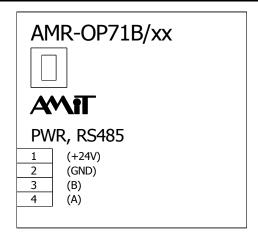
ORDERING INFORMATION

AMR-OP71B/01	On-wall controller, colour platinum
AMR-OP71B/02	On-wall controller, colour shiny metallic, datasheet, warranty certificate





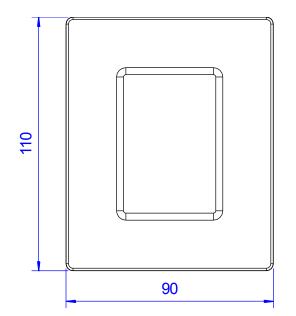
RECOMMENDED DRAWING SYMBOL

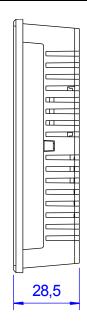


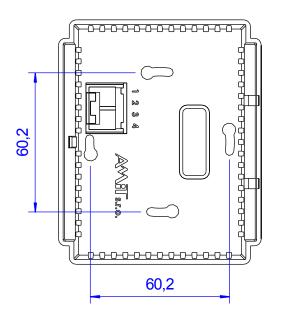
TERMINALS IDENTIFICATION

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

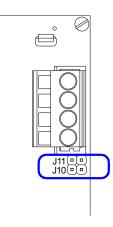
MECHANICAL DIMENSIONS







RS485 CONFIGURATION JUMPERS



Each unit on RS485 network must have properly set the terminating resistors. The configuration jumpers, located under the cover, near the RS485 connector, are used for termination settings. If the jumpers are placed, RS485 termination is connected. The terminal stations must have always connected RS485 termination, intermediate stations – disconnected.

Jumper	Description
J10	Signal A idle state + termination
J11	Signal B idle state + termination



AMR-OP71B/xx

Programmable on-wall controller

OPERATION VARIANTS

Variant 1



Room mode

Highlighted icon indicates selected mode. Relevant mode is activated by pressing on a particular icon.

Icon	Mode	Description
*	Comfort	Controlled to constant (comfort) temperature.
C	Energy saving	Controlled to constant (energy saving) temperature.
<u>(b)</u>	Auto	Controlled according to time plan, adjusted by correction value.

Variant 2



Room mode, fan mode

Three states can be switched by pressing the room mode icon.

Icon	Mode	Description
*	Comfort	Controlled to constant (comfort) temperature.
C	Energy saving	Controlled to constant (energy saving) temperature.
(1)	Auto	Controlled according to time plan, adjusted by correction value.

Five states can be switched by pressing the ventilation icon.

Icon	Mode	Description
	OFF	Fan is off.
₹-	Auto	Fan is controlled automatically.
-∱-	Speed 1	Fan speed is set to level 1.
╬	Speed 2	Fan speed is set to level 2.
╌	Speed 3	Fan speed is set to level 3.

Variant 3



mode

switch

Room mode, switch

Three states can be switched by pressing the room mode icon.

Icon	Mode	Description
*	Comfort	Controlled to constant (comfort) temperature.
C	Energy saving	Controlled to constant (energy saving) temperature.
(1)	Auto	Controlled according to time plan, adjusted by correction value.

Two states can be switched by pressing the power off icon.

Icon	Mode	Description
Off	Off	Switch is off.
On	On	Switch is on.

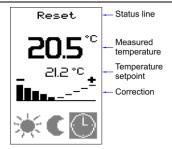
www.amit.cz

CONTROLLER AMR-OP71B/xx OPERATION

Basic screen

Basic screen design depends on application variant. This variant is set during the installation by an applicator. Basic screen part is common for all variants, part depends on chosen mode.

Common icons



Status line

Status	Description
Reset	Controller restart. No communication took place since the restart.
	took place since the restart.
Error	Communication error. Time longer than Guard Time elapsed since last communication.
Menu	Flawless unit operation.

Measured temperature

Room temperature is always displayed on LCD independently of communication.



Temperature setpoint

Temperature is sent by the superior control system. During correction change, the hyphens are displayed until new value setpoint is received from the superior control system. The value could be shown with several second delays.



Correction bar graph

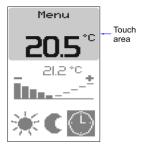
Bar graph is displayed only for the room in the mode **Auto**. It is not displayed in other modes (**Energy saving** and **Comfort**).

Correction value is changed to plus or minus by pressing left or right bar graph part. After each correction change, instead of temperature setpoint, the hyphens are displayed until new temperature setpoint is received from the control system.



User menu

User menu is called-out by pressing the area shown below.

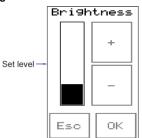


Menu items



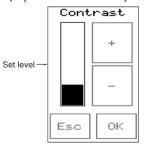
Brightness

The display brightness can be set by item **Brightness**.



Contrast

The display contrast can be set by item Contrast.



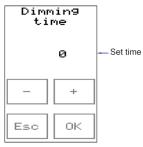
Language

Item **Language** allows switching between Czech and English texts on the controller.



Display

Item **Display** allows setting the time, for which the screen saver is activated.



Following values can be set:

	Description
	Screensaver is off.
10 to 120	Time in seconds, when the screen saver is activated.

Help

Selecting item **Help** shows a firmware version loaded into the on-wall controller.

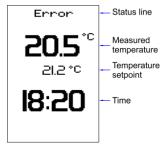


Return

It is possible to return back to the basic screen of on-wall controller by pressing item **Return**.

Screen saver

If the screen saver time is set (by item Display in user menu), the screen saver is displayed after pre-set delay of inactivity (screen saver is displayed, backlight is off).



After the first touch of screen, backlight is turned on; after the second touch – basic screen is displayed.



AMiT, spol. s r. o. declares that the product AMR-OP71B/xx meets basic requirements and other regulations 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.amitomation.com in section Consultancy.

Further information can be found in operational manual (amr-op71bxx_g_en_xxx.pdf). Documentation and examples can be downloaded from www.amitomation.com.