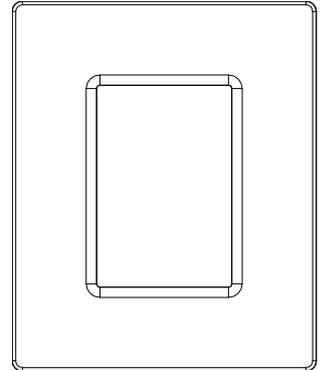![AMiT logo] **AMiT**

Industrial
Control Systems

AMR-OP71/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.
Operation	
Touch panel	Resistive
Communication	RS485
Galvanic isolation	No
Number of devices on RS485 segment	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	125 g
Dimensions (w × h × d)	(90 × 110 × 29) mm
Programming	DetStudio / EsiDet

*) Luminance drop to 50 %

ORDERING INFORMATION

|	
AMR-OP71/01	On-wall controller, colour platinum
AMR-OP71/02	On-wall controller, colour shiny metallic

RECOMMENDED DRAWING SYMBOL

AMR-OP71/xx

AMiT

PWR, RS485

1	(+24V)
2	(GND)
3	(B)
4	(A)
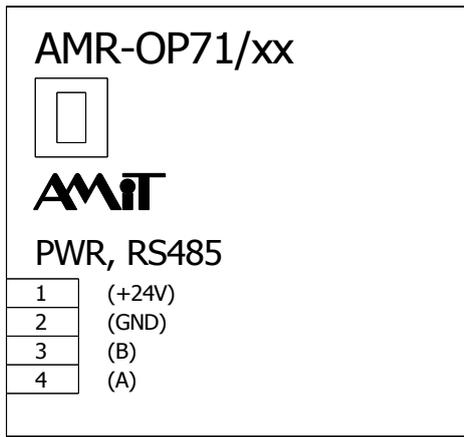
TERMINALS IDENTIFICATION

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

MECHANICAL DIMENSIONS

110

90

28,5

60,2

60,2
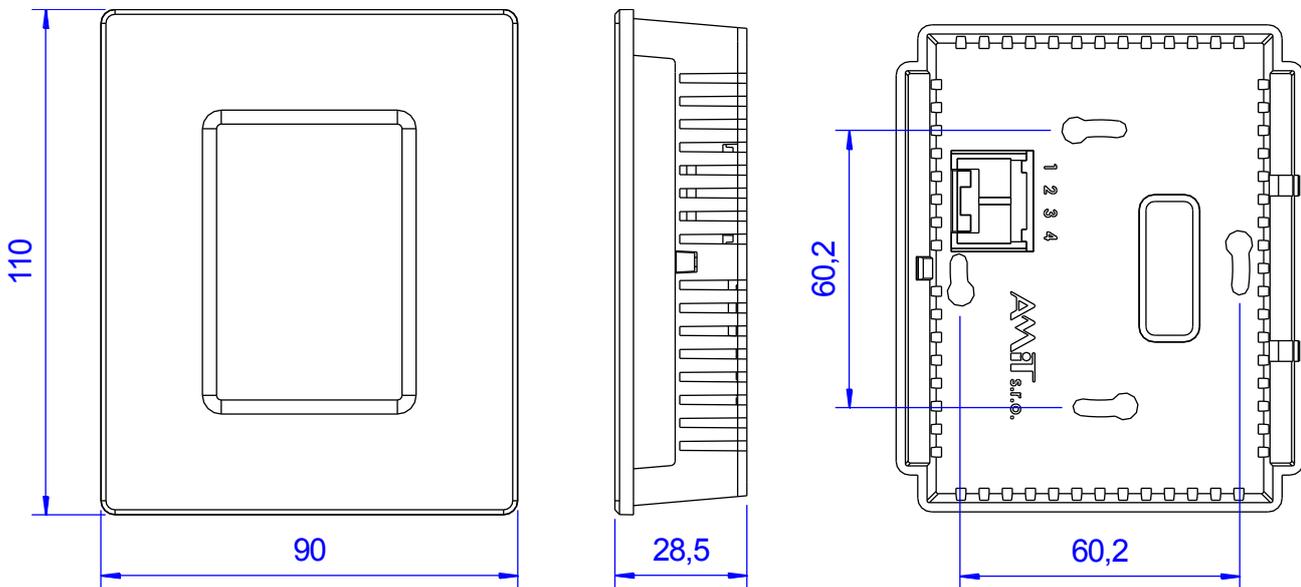
RS485 CONFIGURATION JUMPERS

J11
J10
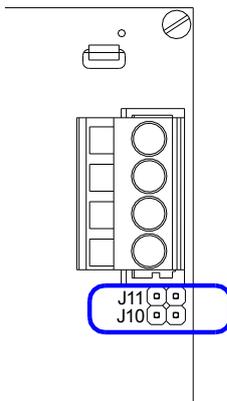
Each unit on RS485 network must have properly set the terminating resistors. Configuration jumpers, located under the cover, near the RS485 connector, are used for termination setting. If jumpers are placed, RS485 termination is connected. The terminal stations must have always connected RS485 termination, intermediate stations – disconnected.

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

AMR-OP71/xx

Programmable on-wall controller

OPERATION VARIANTS

Variant 1 *Room mode*

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

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

Variant 2 *Room mode, fan mode*

Room mode   Fan mode

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

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

Five states can be switched by pressing the ventilation icon.

Icon	Mode	Description
⚙ OFF	OFF	Fan is off.
⚙ A	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 *Room mode, switch*

Room mode   OFF switch

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

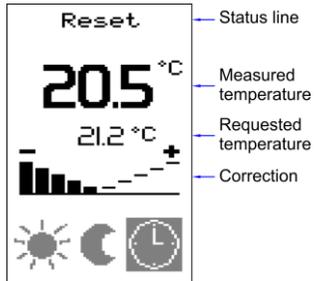| Icon	Mode	Description
☀	Comfort	Controlled to constant (comfort) temperature.
☾	Energy saving	Controlled to constant (energy saving) temperature.
🕐	Auto	Controlled according to time plan, adjusted by correction value.

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

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

AMR-OP71/XX OPERATION

Basic screen

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

Common icons

Status line — Status line
Measured temperature — Measured temperature
Requested temperature — Requested temperature
Correction — Correction

Status line

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

Measured temperature

Room temperature is always displayed on LCD independently of communication.

Requested temperature

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


Correction bar graph

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

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

User menu

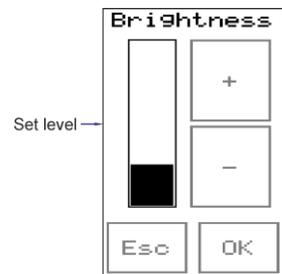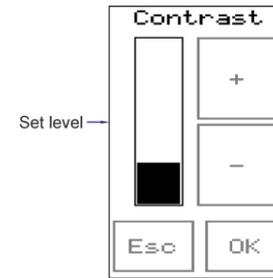User menu is called out by pressing the area shown below.

Touch area

Menu items

— Brightness
— Contrast
— Language
— Screensaver
— Firmware
— Back
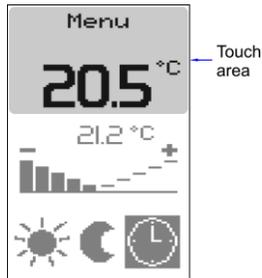
Brightness

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

Set level

Contrast

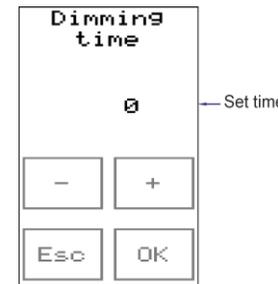The display contrast can be set by item **Contrast**.

Set level

Language

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

Language selection

Display

Item **Display** allows setting screen saver time delay.

Set time

Following values can be set:

Value	Mode
-1	Screensaver is off
10 to 120	Screen saver time delay in seconds

Help

Selecting the **Help** item shows the actual version of application software loaded into the on-wall controller.
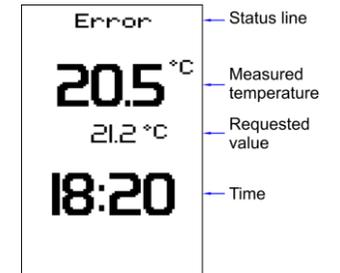

Back

Return

By pressing icon **Back** you can return to the basic screen of on-wall controller.

Screen saver

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

— Status line
— Measured temperature
— Requested value
— Time

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

$C\epsilon$ AMiT, spol. s r.o. declare that the product AMR-OP71/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 "Technical advices".

Detailed information can be found in operational manual (**amr-op71xx_g_en_xxx.pdf**). Documentation and examples can be downloaded from **www.amitomation.com**.