![AMiT logo]

Industrial
Control Systems

AMR-OP70C/xx

Programmable on-wall controller

- **LCD monochrome graphical display**
- **Touch screen**
- **Communication interface RS485**
- **Room temperature measurement**
- **CO$_2$ concentration measurement**
- **Acoustic signalisation (application driven)**
- **On-wall mounting**
- **Power supply 24 V DC**
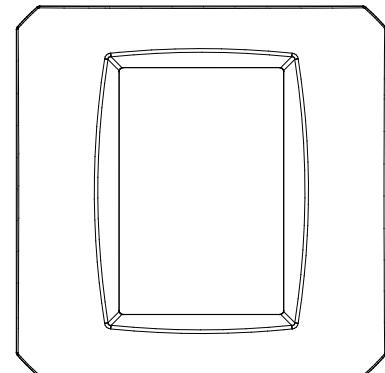
TECHNICAL DATA

Display	Graphical monochrome LCD
Resolution	(64 × 132) pixels (asymmetric point)
Display area	(58 × 38) mm
Backlight / lifetime	LED / min. 50 000 hours [1]
Temperature measurement	Semiconductor sensor
Measurement range	-55 °C to 125 °C [2]
Measurement accuracy	±2 °C (-55 °C to 0 °C) ±0.5 °C (0 °C to 50 °C) ±2 °C (50 °C to 125 °C)
Settling time	45 min. [3]
CO$_2$ concentration measurement	NDIR
Measurement range	400 ppm to 3000 ppm
Measurement accuracy	±150 ppm
Settling time	90 s
Acoustic signalisation	Piezo
Control	Resistive touch panel
Communication	RS485
Galvanic isolation	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	
Connection points	CHF5/2 terminal
Ingress protection rate	IP20
Operating temperature range	-10 °C to 50 °C
Maximum ambient humidity	< 95 %, non-condensing
Mounting	On the wall
Weight	0.10 kg
Dimensions (w × h × d)	(90 × 90 × 32) mm
Programming	DetStudio / EsiDet

[1]) Luminance drop to 50 %.
[2]) Sensor characteristic, the operating temperature range of on-wall controller is lower.
[3]) Time from power-up, in this time, the accuracy of measurement is reduced to ±2 °C.

ORDERING INFORMATION

AMR-OP70C/xx	On-wall controller

	Colour of the tub		Colour of the cover	
AMR-OP70C/01	gray	RAL 7005	white	RAL 9003
AMR-OP70C/02	ivory	RAL 1013	ivory	RAL 1013
AMR-OP70C/03	gray	RAL 7005	gray	RAL 7005
AMR-OP70C/04	white	RAL 9003	white	RAL 9003

Note: Small depressions at the surface and colour inhomogeneity are not grounds for warranty claim.

RECOMMENDED DRAWING SYMBOL

AMR-OP70C/xx

AMiT

PWR, RS485

1	+24V
2	GND
3	B
4	A
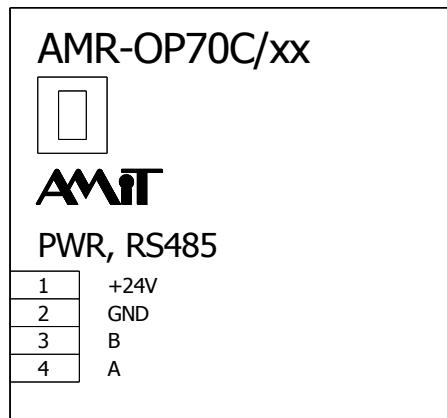
PHYSICAL DIMENSIONS
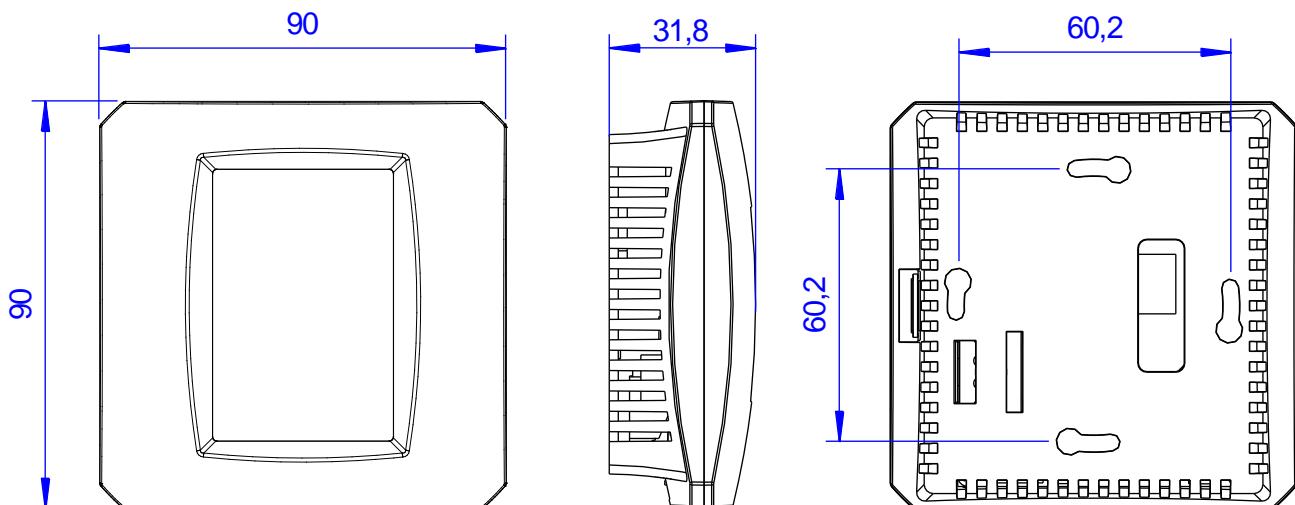
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RS485 CONFIGURATION JUMPERS
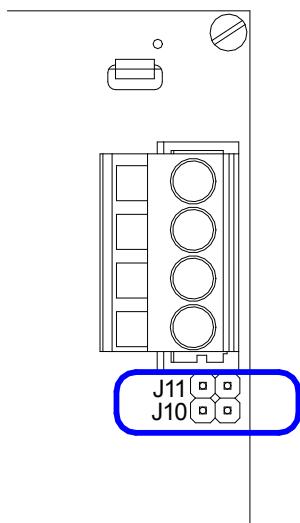
Each unit on communication line RS485 must have correctly set termination resistor. To set the termination, the configuration jumpers located beside the RS485 connector are used. If the configuration jumpers are set, the termination is connected. The terminal stations on the line must always have connected the termination, continuously disconnected.

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