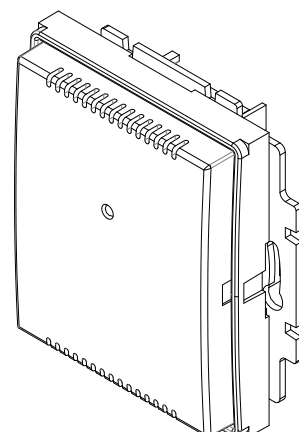


AMR-OP40RHC/xx

Programmable on-wall controller

- **Measurement of temperature and relative ambient humidity**
- **CO₂ concentration measurement**
- **Acoustic signalling**
- **MODBUS RTU / ARION (RS485) communication**
- **Design ABB Time / Time Arbo**
- **Possibility of custom programming**
- **Wall mounting**
- **Power supply 24 V DC**



TECHNICAL DATA

Temperature measurement	Electronically
Measurement range	-10 °C to +50 °C
Measurement accuracy	±1 °C (-10 °C to 0 °C) ±0.5 °C (0 °C to 50 °C)
Tempering after switching on	< 20 s ¹⁾
Measurement of relative humidity	Electronically
Measurement range	20 % to 80 %, non-condensing
Measurement accuracy	±3.5 %
Tempering after switching on	< 20 s ¹⁾
CO₂ concentration measurement	NDIR
Measurement range	400 ppm to 2,000 ppm
Measurement accuracy	±(50 ppm + 5 % of reading)
Tempering after switching on	60 s ¹⁾
Acoustic signalling	Piezo buzzer
Visual signalling	LED
Communication	1 × RS485
Galvanic isolation	No
Number of stations per segment	256
Power supply	10 V DC to 30 V DC
Maximum consumption	40 mA at 24 V DC
Other	
Ingress protection rate	IP30
Operating temperature range	-10 °C to 50 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	Into a KU68 mounting box with a frame
Frame design	ABB Time / Time Arbo
Weight	55 g ±5 %
Dimensions	(71 × 71 × 33) mm ²⁾
Application program	TA_OP40RHC_FW01M_xxx ³⁾
Programming	DetStudio / EsiDet

¹⁾ Time since power-up, during this time the accuracy of temperature, relative humidity and CO₂ concentration measurement decreases.

²⁾ Final dimensions depend on the frame type.

³⁾ Application software is available for free at amitautomation.com.

ORDERING INFORMATION

AMR-OP40RHC/xx ⁴⁾	On-wall controller
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⁴⁾ xx indicates the colour version, see the following table.

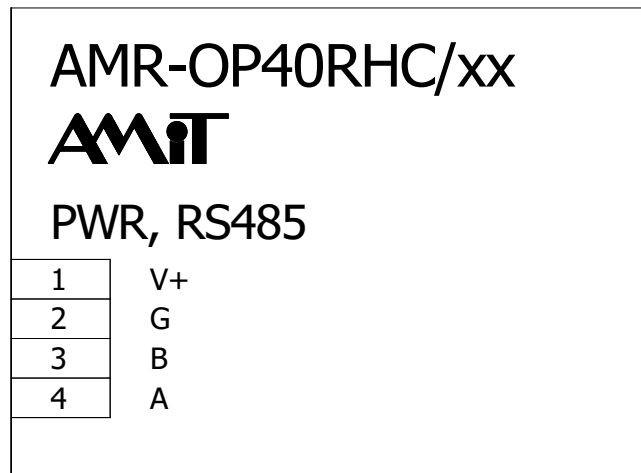
Designation	Colour version
AMR-OP40RHC/01	White / ice white, Time
AMR-OP40RHC/03	White / white, Time
AMR-OP40RHC/08	Titanium, Time
AMR-OP40RHC/32	Old silver, Time
AMR-OP40RHC/33	Champagne, Time
AMR-OP40RHC/34	Anthracite, Time
AMR-OP40RHC/36	Steel, Time

Note: Small recesses on the surface and colour inhomogeneity do not justify a warranty claim.

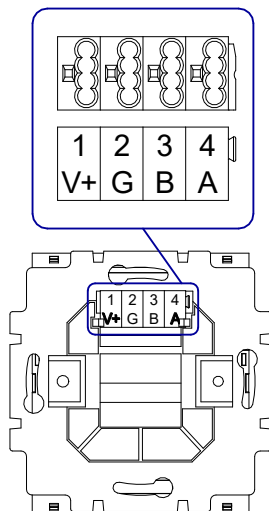
TERMINALS IDENTIFICATION

Terminal	Signal	Significance
1	V+	Power supply, +24 V DC
2	G	Common ground
3	B	RS485, signal B
4	A	RS485, signal A

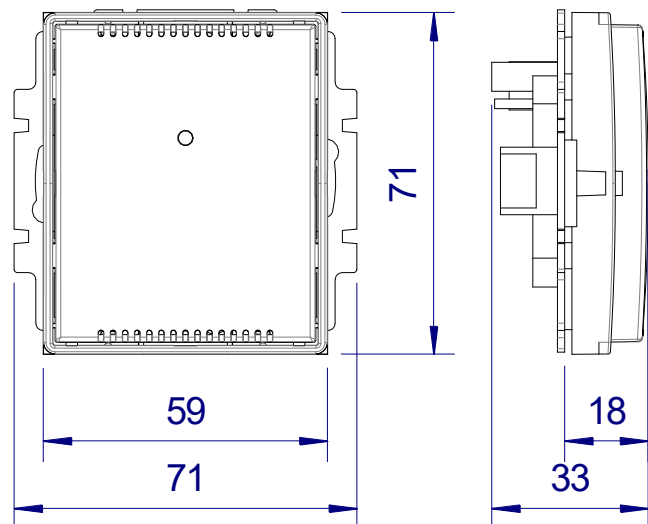
RECOMMENDED DRAWING SYMBOL



LOCATIONS OF TERMINALS



MECHANICAL DIMENSIONS



Data in this datasheet is tentative. Binding detailed information can be found in the operation manual ([amr-op40rhcxx_g_en_xxx.pdf](#)). Documentation and examples are available at [amitotion.com](#).