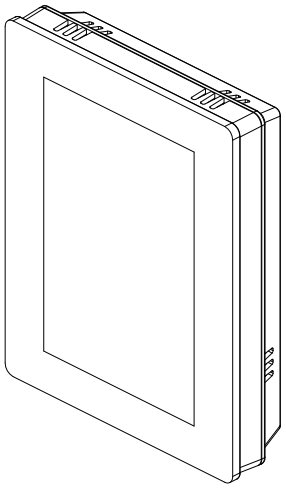
AMR-OP75RHRC/xx

Room control unit

- **TFT 3.5″, (320 × 480) pixels, backlight with ambient control**
- **Glass capacitive touch panel**
- **RS485 communication interface**
- **Measurement of temperature, relative humidity and CO_2 concentration**
- **Acoustic signalling**
- **1× RTD/NTC input**
- **1× relay output**
- **Assembly by screwing/gluing**
- **Power supply, 24 V DC**



TECHNICAL DATA

Display	Graphic colour LCD
Resolution	(320 × 480) pixels (symmetric point)
Display area	(48.9 × 73.4) mm
Backlight / lifetime	LED with ambient control / min. 50,000 hrs [1])
Control	Glass capacitive touch panel
Temperature, humidity measurement	Digital sensor
Temperature / humidity measurement range	-10 °C to 50 °C / 20 % to 80 %
Temperature measurement accuracy	±0.5 °C
Humidity measurement accuracy RH 20% to 60% RH 60% to 80%	 ±3 % ±{3 + [(RH-60)/10]} %
Stabilisation time	45 min. [2])
CO_2 concentration measurement	NDIR
Measurement range	400 ppm to 2,000 ppm
Accuracy	±(50 ppm + 5 % of reading)
Stabilisation time	60 s
Acoustic signalling	Piezo buzzer
RTD/NTC inputs	1× RTD (Ni1000/Pt1000)/NTC (10k/20k)
Galvanic isolation	No
Relay output	1× SPST contact
Maximum switched current	0.25 A at 230 V AC/24 V DC (resistive load)
Communication	RS485 without GI
Number of units in a RS485 segment	256
Power supply	17 V DC to 30 V DC
Maximum consumption	100 mA at 24 V DC
Other	
Connection points	Terminal block PTS 1,5/10-PH-5,0
Ingress protection rate	IP20
Operating temperature range	-10 °C to 50 °C
Maximum ambient humidity	< 95 % non-condensing
Mounting	On-wall / KU68 / smooth surface
Weight	0.18 kg ±5 %
Dimensions (w × h × d)	(86 × 110 × 25) mm

[1]) Backlight intensity drop to 50 %.
[2]) During this time the accuracy is reduced to ±1 °C.

AMiT Automation s.r.o.
Radlicka 740/113c, 158 00 **PRAHA**, Czech Republic
Phone: +420 222 780 100, 222 781 516

Export Sales Department
Videnska 186/118, 619 00 **BRNO**, Czech Republic
Phone: +420 778 775 407
e-mail: automation@amit.cz

Technical support
Phone: +420 549 210 279, 549 210 403
e-mail: support@amit.cz

ID number: 27652203, VAT ID: CZ27652203
Bank: Komerční banka, a.s., Na Prikope 33, Praha 1, 11407, IBAN: CZ34 0100 0001 3132 8857 0267, SWIFT: KOMBCZPPXXX

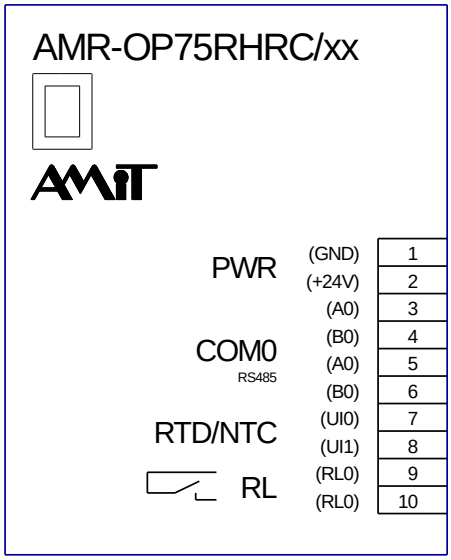
ORDERING INFORMATION

AMR-OP75RHRC/xx	Room control unit

Designation	Colour design
AMR-OP75RHRC/01	White, RAL 9003
AMR-OP75RHRC/02	Black, RAL 9005

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

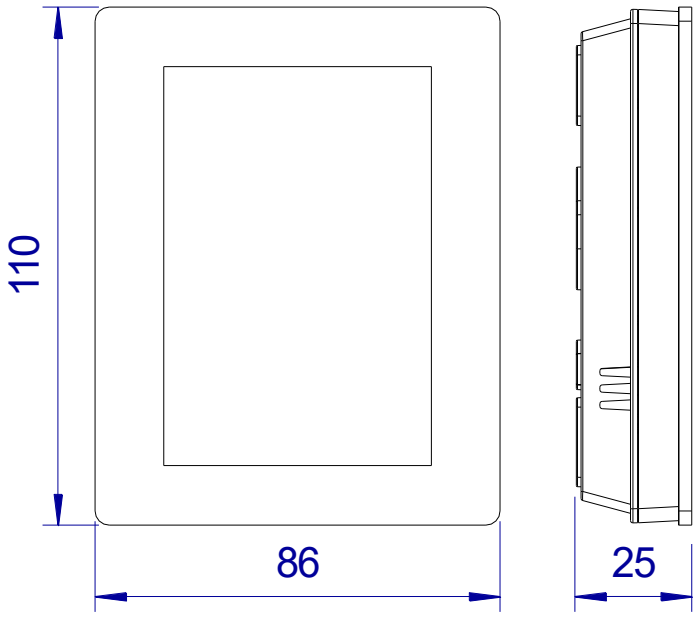
RECOMMENDED DRAWING SYMBOL



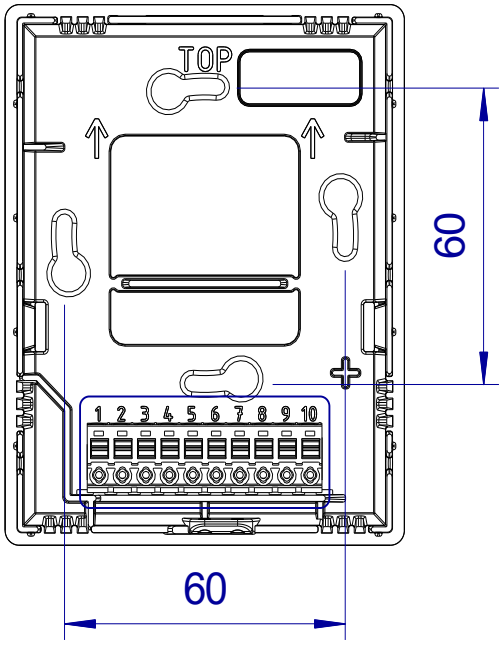
DESCRIPTION OF TERMINALS

Terminal	Significance
1	Common ground
2	Power supply, +24 V DC
3	RS485, signal A0
4	RS485, signal B0
5	RS485, signal A0
6	RS485, signal B0
7	RTD/NTC input, UI0
8	RTD/NTC input, UI1
9	Relay output, RL0, terminal 1
10	Relay output, RL0, terminal 2

MECHANICAL DIMENSIONS



PAN



Data in this datasheet is tentative. Binding detailed information can be found in the operation manual (**amr-op75rhrx_g_en_xxx.pdf**). Documentation can be downloaded at **amitomation.com**.