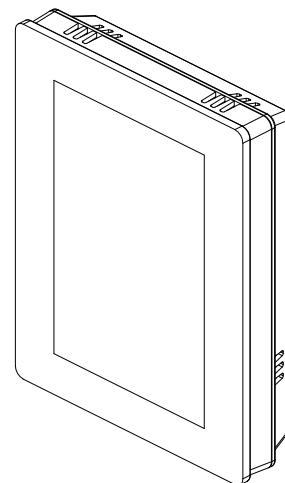


# AMR-OP75RHR/xx

Room control unit

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



## TECHNICAL DATA

|   |  |
|---|--|
| <b>Display</b>  | 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 <sup>1)</sup> |
| <b>Control</b>  | Glass capacitive touch panel                             |
| <b>Temperature, humidity measurement</b>                        | Digital sensor   |
| Temperature / humidity measurement range                        | -10 °C to 50 °C / 20 % to 80 %                           |
| Temperature measurement accuracy                                | ±0.5 °C  |
| Humidity measurement accuracy<br>RH 20% to 60%<br>RH 60% to 80% | ±3 %<br>±{3 + [(RH-60)/10]} %                            |
| Stabilisation time  | 45 min. <sup>2)</sup>                                    |
| <b>RTD/NTC inputs</b>   | 1× RTD (Ni1000/Pt1000)/NTC (10k/20k)                     |
| Galvanic isolation  | No   |
| <b>Relay output</b>   | 1  |
| Output type   | 1× SPST contact  |
| Maximum switched current  | 0.25 A at 230 V AC/24 V DC<br>(resistive load)           |
| <b>Communication</b>  | RS485 without GI   |
| Number of units in a RS485 segment                              | 256  |
| <b>Power supply</b>   | 20 V DC to 30 V DC                                       |
| Maximum consumption   | 100 mA at 24 V DC  |
| <b>Other</b>  |  |
| 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                                       |

<sup>1)</sup> Backlight intensity drop to 50 %.

<sup>2)</sup> During this time the accuracy is reduced to ±1 °C.

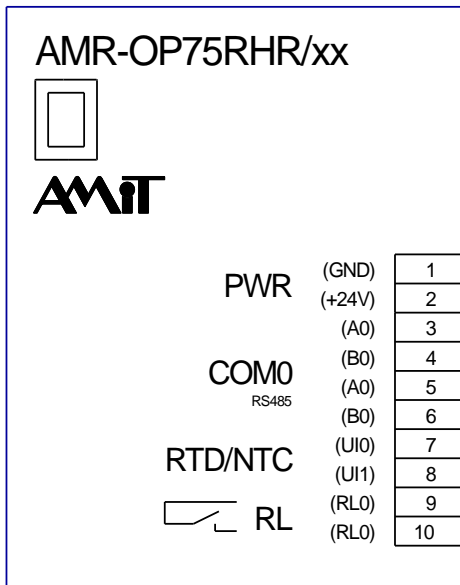
## ORDERING INFORMATION

|                       |                   |
|-----------------------|-------------------|
| <b>AMR-OP75RHR/xx</b> | Room control unit |
|-----------------------|-------------------|

|                       |                 |
|-----------------------|-----------------|
| Designation           | Colour design   |
| <b>AMR-OP75RHR/01</b> | White, RAL 9003 |

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

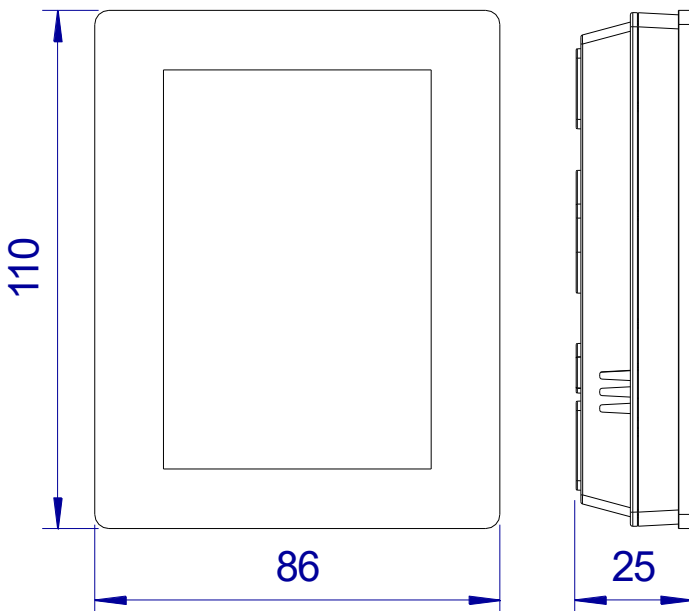
### RECOMMENDED DRAWING SYMBOL



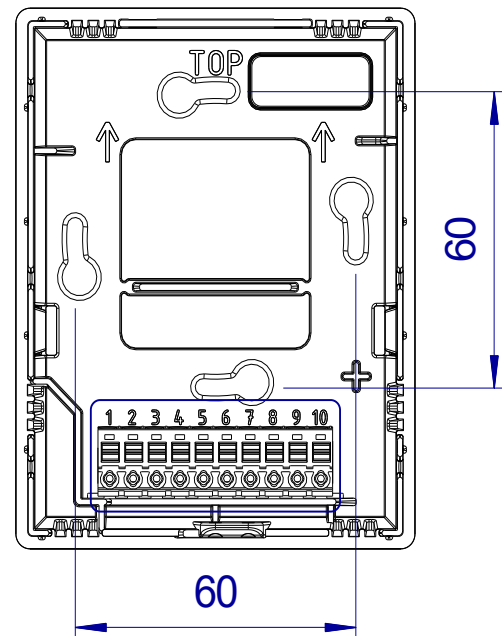
### DESCRIPTION OF TERMINALS

| 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-op75hrhx\_g\_en\_xxx.pdf). Documentation can be downloaded at [amitautomation.com](http://amitautomation.com).