

HTRTIOA(-D)

Humidity and temperature transmitters

A range of room transmitters for measuring humidity and temperature in indoor environments.

- ✓ Analogue output signal
- ✓ Temperature sensors, 0...10 V DC referring to 0...50°C and PT1000 class DIN B
- ✓ Output signal humidity, 0...10 V DC referring to 0...100 % RH
- ✓ Humidity, 10...90 % RH
- ✓ Temperature, 0...50°C
- ✓ Good long-term stability

Function

Transmitters intended for wall mounting in HVAC systems.

Temperature sensors

The unit has built-in $0...10\,\mathrm{V}$ and PT1000 temperature sensors, working range $0...50\,^{\circ}\mathrm{C}$.

Note! The PT1000 sensor is not compensated for internal warm-up. The passive temperature output must be calibrated with a controller.

Relative humidity

The transmitters have a capacitive thin-film element that provides a 0...10~V signal proportional to the relative humidity in the range 0...100~% RH.

The measuring element responds quickly to changes in humidity and has excellent long-term stability.

Supply voltage

The transmitter uses a supply voltage of 24 V AC ± 10 % or 15...35 V DC. It automatically detects and adapts to the supply voltage connected.

Display (-D models)

Display models have an LCD display showing temperature and humidity in an alternating series.



Technical data

Output signal	Analogue
Supply voltage (UV)	24 V AC ±10 % or 1535 V DC
Power consumption	<1W
Transformer power	2 VA
Electrical connection	Screw terminals max. 1.5 mm2 (AWG 16)
Storage temperature	-25+60°C
Operating temperature	050°C
Ambient humidity	1090 % RH non-condensing
Protection class	IP30
Dimensions (WxHxD)	85 x 100 x 30.5 mm

Technical data, humidity sensor

Humidity sensor	Capacitive
Analogue output 0100 % RH	010 V, IL ≤ 1 mA
Working range	1090 % RH
Accuracy at 20°C	±3 % RH

Technical data, temperature sensor I...10 V

Analogue output 050°C	010 V DC, IL ≤ 1 mA
Working range	050°C
Accuracy at 20°C	±0.4°C

Technical data, temperature sensor PT1000

Output signal temperature	PT1000 class DIN B
Working range	050°C
Accuracy at 20°C	±0.3°C

Models

Article	Description
HTRT10A	Humidity and temperature transmitter
HTRT10A-D	Humidity and temperature transmitter with display

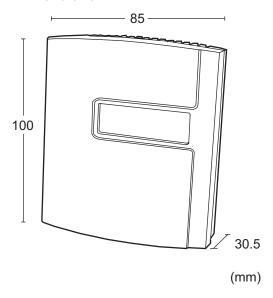
CE

EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2014/30/EU through product standards EN 61000-6-1 and EN 61000-6-3.

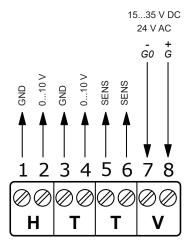
RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.



Dimensions



Wiring



GND and G0 are internally connected.

Product documentation

Document	Description
HTRT10A(-D)_inst	Instruction for the transmitter range

The product documentation can be downloaded from www.regincontrols.com

