HTRT10A(D)-420
Humidity and temperature transmitters

Wall mounted room transmitters for measuring humidity and temperature in indoor environments.

- ✓ Output signal 4...20 mA
- ✓ With or without display
- ✓ Good long-term stability
- ✓ Humidity range 10...90 % RH
- ✓ Temperature range 0...50°C

Function

The sensor is mounted in the cover-part of the casing. The cover is easy to detach from the back by means of snap-in grips and detachable terminals which makes mounting easy. Furthermore, no cables have to be disconnected, simplifying service and replacement.

Temperature sensor

The transmitter has a built in temperature sensor, which gives output signal 4...20 mA and has a temperature range of 0...50°C.

Relative humidity

The transmitters have a capacitive thin-film element which gives a signal that is proportional to the relative humidity. The measuring signal is converted by the built-in electronics to output signal 4...20 mA (corresponding to 0…100 RH).

The sensor element has rapid response to changes in humidity, and excellent long-term stability. The element also has good durability in contaminated environments.

Supply voltage

The transmitter uses a supply voltage of max. 28 V DC and min. 11 + (0.02xRL) V DC. It automatically detects and adapts to the supply voltage connected.

Appearance

The transmitter comes in a discreet white housing.

The display model (D) has a LCD display showing temperature and humidity in an alternating series.

Installation

The transmitter should be mounted in a location with good air circulation where it can be expected to give a representative reading. It can be mounted on a wall box or directly on the wall.
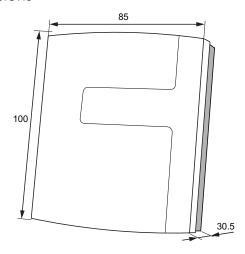
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Technical data

Output signal	4...20 mA (2-wire) (T=0…50°C, RH=100 % r.h.)
Supply voltage	Max. 28 V DC, Min. 11+(1.02xR_L) V DC
Power consumption	1.2 W
DC power supply	Min. 2W
Temperature range	0...50°C
Accuracy, temperature	±0.5°C at 20 °C
Humidity, working range	10...90 % RH
Accuracy, humidity	±3 % RH at 20 °C
Protection class	IP30
Dimensions	100 x 85 x 30.5 mm
Colour	Signal white RAL 9003

CE
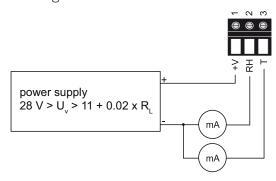
This product carries the CE mark. For more information, see www.regincontrols.com.

Dimensions

Measurements in mm

Wiring

power supply
$28\ V > U_v > 11 + 0.02 \times R_L$

Product documentation

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

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