





The HRT250 series is a humidity- or a humidity/temperature- transmitter for wall/room mounting.

* Supply voltage 24 V AC or 20-35 V DC	* IP65
* Accuracy +/- 2% RH	* Excellent long term stability
* Output signal 0-10 V DC or 4-20mA	* Resistant to contamination

Function

HRT250 humidity transmitter is intended for wall/ room-mounting in HVAC-applications, swimming baths, greenhouses, stables etc.

The humidity transmitter has 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 signals, 0 - 10 V or 4-20mA

Measuring element

The transmitter has an accuracy of +/- 2%RH (0...90%RH), +/-3% (90...100%RH). The measuring element has rapid response to changes in humidity. It can withstand saturation without negative effects on the accuracy. The sensor element can be subjected to 100 %RH without being damaged and has excellent long-term stability. The element also has good durability in contaminated environments.

Combination sensor

The HTRT transmitter has, apart from the functions included in HRT, a temperature sensor, which, via the built-in electronics, gives output signals 0 - 10 V DC or 4-20mA.

Supply voltage

The transmitter can be supplied by either 24 V AC or 20 - 35 V DC. The transmitter has automatic adaptation to the connected voltage.

Transmitters with output 4-20mA is to be supplied with 20-35 V DC



Models **HRT250** Humdity transmitter for wall/room mounting, 0-10V HRT250-420 Humdity transmitter for wall/room mounting, 4-20mA HTRT250 Humidity and temperature transmitter for wall/room mounting, 0-10V HTRT250-420 Humidity and temperature transmitter for wall/room mounting, 4-20mA **Technical data** Supply voltage 24 V AC +/-20% (only 0-10V versions) or 20-35 V DC Ambient temperature electronics -20...+50 C° -20...+80 C° Ambient temperature probe Cabel connection Screw terminals max 1,5mm Protection class IP65 CE These products conform with the requirements of European EMC standards CENELEC EN 50081-1 and EN 50082-1 and carry the CEmark. **Humidity** Sensor element Capacitive thin-film element The sensor element can be subjected to 100 %RH without being damaged. Working range 0...100 %RH Accuracy at 20° C +/-2 % RH (0...90% RH), +/-3% RH (90...100%RH) Hysteresis 10% - 80% - 10% <2% RH Typical - 0,05% RH/° C Temperature dependance at 60% RH 0 - 10 V DC <1,0mA, 4-20mA <500 Ohm for 0-100% RH Outputs Sensor protection Membrane filter, sintered brass on request. **Temperature** (only HTRT250 and HTRT250-420) Sensor element KF6544 Class DIN A IEC 751 -20...+80 C° Working range Output signals 0 - 10 V DC or 4-20mA for -20...+80°C Accuracy at 20°C +/- 0,2°C <+/- 0,03°C / °C (for the electronic circuitry) Temperature dependence

All other technical details as above.

Dimensions and wiring

HTRT250 **HRT250** Supply voltage Supply voltage 1 1 34 2 System neutral 2 System neutral Output humidity 0-10 V DC 3 3 Output humidity 0-10 V DC 4 51 Output temperature 0-10 V DC HRT250-020 HTRT250-020 Supply voltage 1 Supply voltage 1 86 Output humidity 4-20mA 2 2 Output humidity 4-20mA 3 Output temperature 4-20mA Π ΪŤ Ø16 85 35 (mm)

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