

HDT3200

Humidity/temperature transmitter Duct mounting



The HDT3200 series is a humidity- or a humidity/temperature- transmitter for duct mounting in HVAC applications.

- * Supply voltage 24 V AC or 15...35 V DC
- * Accuracy +/- 3% RH
- * Output signal 0...10 V DC or 4...20 mA

- * IP65
- * Good long term stability
- * Resistant to contamination

Function

The HDT3200 humidity transmitter is intended for duct-mounting in HVAC systems.

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 signal, 0...10 V or 4...20 mA

Measuring element

The transmitter has an accuracy of +/- 3%RH (40...60%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 transmitter

The HTDT transmitter has, apart from the functions included in HDT3200, a temperature sensor, which, via the built-in electronics, gives output signal 0...10 V DC or 4...20 mA

Supply voltage

The transmitter can be supplied by either 24 V AC or 15...35 V DC. The transmitter has automatic adaptation to the connected voltage.

Models

HDT3200 Humdity transmitter for duct mounting, 0...10V HDT3200-420 Humdity transmitter for duct mounting, 4...20mA

HTDT3200 Humidity and temperature transmitter for duct mounting, 0...10V HTDT3200-420 Humidity and temperature transmitter for duct mounting, 4...20mA

Technical data

Supply voltage 24 V AC +/-20% and 15...35 V DC

Ambient temperature -5...+50 C°

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 CE mark.

Humidity

Sensor element Capacitive thin-film element

The sensor element can be subjected to 100 %RH without

being damaged.

Working range 20...95 %RH

Accuracy +/-3 % RH (40...60% RH), +/-5% RH elsewhere

Temperature dependance at 45% RH Typical -0,05% RH/° C

Outputs 2 - 9,5 V DC for 20...95 %RH, max 1,0mA

The signals are scaled so that 0...10 V DC or 4...20 mA would

correspond to 0...100 % RH).

Sensor protection Membrane filter, sintered brass on request

Temperature only HTDT3200

Sensor element KF6645 Class DIN B IEC 751

Working range -5...50 C°

Output signals 0...10 V DC or 4...20 mA for 0...50°C

Accuracy at 20°C +/- 0,5°C

All other technical details as above.

Dimensions and wiring

HDT3200

- 1 Supply voltage
- 2 System neutral
- 3 Output humidity 0...10 V DC
- 4 NC

HTDT3200

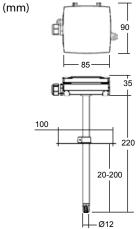
- 1 Supply voltage
- 2 System neutral
- 3 Output humidity 0...10 V DC
- 4 Output temperature 0...10 V DC

HDT3200-420

- 1 Supply voltage
- 2 Output humidity 4...20mA

HTDT3200-420

- 1 Supply voltage
- 2 Output humidity 4...20 mA
- Output temperature 4...20 mA



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