



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	Humidity transmitter for duct mounting, 0...10V
HDT3200-420	Humidity 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
3	Output temperature 4...20 mA

