



HDT2200

Humidity/temperature transmitter for duct mounting

The HDT2200 series is a humidity- or a humidity/temperature- transmitter for duct mounting

- Supply voltage 15-29 V AC or 15-35 V DC
- Accuracy +/- 2% RH
- Output signal 0-10 V DC or 4-20 mA

Function

The HDT2200 humidity transmitter is intended for duct-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 4-20 mA

Measuring element

The transmitter has an accuracy of +/- 2%RH (0...90%RH), +/-3% RH (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.

- IP65
- Excellent long term stability
- Resistant to contamination

Combination transmitter

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

Supply voltage

The transmitter can be supplied by either 15-29 V AC or 15 - 35 V DC. The transmitter has automatic adaptation to the connected voltage.

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

Models

| | |
|--------------|----------------------------------------------------------------|
| HDT2200 | Humidity transmitter for duct mounting, 0-10V |
| HDT2200-420 | Humidity transmitter for duct mounting, 4-20mA |
| HTDT2200 | Humidity and temperature transmitter for duct mounting, 0-10V |
| HTDT2200-420 | Humidity and temperature transmitter for duct mounting, 4-20mA |

Technical data

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|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Supply voltage | 15-29 V AC +/-20% and 15-35 V DC (versions with 4-20 mA output: 20-35 V DC) |
| Current consumption | 15 mA (0-10 V versions) |
| Output charge | Max 1 mA (0-10 V) , >500 Ω (4-20 mA) |
| Ambient temperature electronic | -20...+50 C° |
| Ambient temperature sensor | -20...+80 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.

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|----------------------------|-----------------------------------------------------------------------|
| 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 |
| Temperature dependance | Typical - 0,05% RH/° C at 60% RH |
| Outputs | 0 - 10 V DC <1,0mA, 4-20 mA <500 Ohm for 0...100% RH |
| Sensor protection | Membrane filter, sintered brass on request |

| | |
|----------------------------------------------|-------------------------------------------------|
| Temperature (only HTDT2200 and HTDT2200-420) | |
| Sensor element | KF6544 Class DIN A IEC 751 |
| Working range | -20...+80 C° |
| Output signals | 0 - 10 V DC or 4-20 mA for -20...+80° C |
| Accuracy at 20°C | +/- 0,2°C |
| Temperature dependence | <+/- 0,03°C / °C (for the electronic circuitry) |

All other technical details as above.

Wiring and dimensions

HDT2200

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|---|---------------------------|
| 1 | Supply voltage |
| 2 | System neutral |
| 3 | Output humidity 0-10 V DC |

HDT2200-420

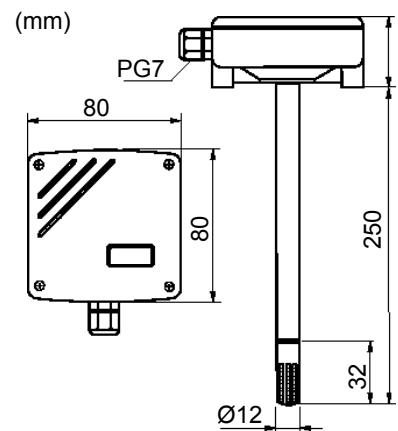
| | |
|---|------------------------|
| 1 | Supply voltage |
| 2 | Output humidity 4-20mA |

HTDT2200

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

HTDT2200-420

| | |
|---|---------------------------|
| 1 | Supply voltage |
| 2 | Output humidity 4-20mA |
| 3 | Output temperature 4-20mA |



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