

- Output signal 0...10 V DC or 4...20 mA, as well as passive PT1000
- Supply voltage 24 V AC or 15...35 V DC
- Protection class IP65

HTDT2500(-420) has a capacitive thin-film element that provides a signal propotional to the relative humidity.

The transmitter has a high degree of accuracy. The measuring element responds quickly to changes in humidity.

The transmitter has excellent long-term stabilty and a low hysteresis. It can withstand up to 100 % RH (condensing) without accuracy being affected.

Filter

The transmitter sensor element is protected by a membrane filter. This can be changed to a sintered brass filter, which is recommended if operating in an environment with a high degree of pollution.

HTDT2500(-420)

Combined humidity/temperature transmitter for duct mounting

Transmitter for measuring temperature and relative humidity.

- High accuracy
- Short reaction time
- Long-term stability

Output signal

The output signal is either 0...10 V (HTDT2500) or 4...20 mA (HTDT2500-420). The transmitter also has a passive PT1000-signal.

Supply voltage

HTDT2500 uses a supply voltage of either 24 V AC or 15...35 V DC. The transmitter will automatically detect and adapt to the supply voltage connected.

HTDT2500-420 uses a supply voltage of 20...35 V DC, two-wire.

Housing

The transmitter has a Polycarbonate housing.



Technical data

Supply voltage HTDT2500 HTDT2500-420 Power consumption Output signal Cable connection Material housing Weight Ambient temperature electronics probe Storage temperature Protection class CE

Humidity

Sensor element Measuring range Output signal Accuracy Temperature dependency Hysteresis

Temperature

Sensor element Measuring range Output signal Accuracy

24 V AC +/- 20 % or 15...35 V DC 20...35 V DC (RL <500 Ω), 11...35 V DC (RL <50 Ω) 15 mA (0...10 V output signal), 4...20 mA (4...20 mA output signal) Max. load 1 mA (0...10 V), >500 Ω (4...20 mA) Screw connector Polycarbonate (PC) 0.23 kg -20...+50°C -20...+80°C -25...+60°C IP65 EMC emissions & immunity standards: This product conforms to the requirements of the EMC Directive 2004/108/EC through product standards EN 61326-1 and EN 61326-2-3. RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council.

Capacitive thin-film element, HCT01 10...95 % RH 0...10 V DC (4...20 mA), corresponding to 0...100 % RH +/- 2.5 % RH at 20°C Less than +/- 0.03 % RH/°C (at 60 % RH)

Less than 2 % RH

MO1K (DIN class A according to IEC751) 0...50°C 0...10 V or 4...20 mA, corresponding to 0...50°C +/-0.3°C at 20 °C

Wiring and dimensions





Product documentation

Document name	Туре
HTDT2500(-420)_inst	Instruction for HTDT2500(-420)

The document can be downloaded from www.regin.se



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