HTWT10(-420)





Wall-mounted transmitter for relative humidity and temperature measurement in climate and air handling installations.

- √ High accuracy
- ✓ Excellent temperature compensation
- ✓ Very good protection against condensation and pollution
- ✓ Robust sensor element
- √ Easy to mount

Application

HTWT10(-420) is intended for wall mounting and has a capacitive thin-film element that provides a signal proportional to the relative humidity.

Function

The measurement signal is transmitted via the built-in electronics to an analogue output signal.

The transmitter has high accuracy (± 2 % RH) and excellent long-term stability. The sensor element reacts quickly to changes in humidity and low hysteresis. It can withstand up to 100 % RH (condensing) without accuracy being affected and is highly resistant to polluted environments.

Combination sensor

The transmitter has a temperature sensor which provides an analogue output signal via built-in electronics.

Filter

The transmitter sensor element is protected by a membrane filter. This can be changed to a stainless steel filter (HA010103), which is recommended when operating in an environment with a high degree of pollution.

Supply voltage

The transmitter uses a supply voltage of either 15...29 V AC or 15...35 V DC. The transmitter will automatically detect and adapt to the connected supply voltage. Transmitters with 4...20 mA output signal must be supplied with 20...30 V DC and connected via a two-wire connection.

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Technical data

1 General

Power consumption	15 mA (010 V output signal)
Output load	Max 1 mA (010 V), max. 500 Ω (420 mA)
Cable connection	Disconnectable terminal strips
Protection class	IP65
Weight	0.25 kg
Accuracy	±0.2 K at 20°C
Storage temperature	-40+60°C
Load impedance HTWT10 HTWT10	Min. 10 kΩ Max. 500 Ω

2 Humidity

Sensor element	Capacitive thin-film element	
Sensor element protection	Membrane filter. Sintred filter in stainless steel on request.	
Working range	0100 % RH	
Output signal	010 V DC (420 mA) corresponding to 0100 % RH	
Accuracy	±2 % RH (090 % RH), ±3 % RH (90100 % RH)	
Hysteresis	Less than 2 % RH	
Temperature dependency	Less than ±0.03 % RH/ °C (at 45 % RH)	

3 Temperature

Sensor element	PT1000 (tolerance according to DIN B EN60751)	
Measurement range	-20+80°C	
Output signal	010 V DC (420 mA) corresponding to -20+80°C	
Accuracy	±0.2 K at 20°C	
Temperature dependency		

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This product carries the CE-mark. More information is available at $\underline{www.regincontrols.com}$.

Material

Material, housing	Polycarbonate (PC)
	Cover: Signal white RAL 9003 Bottom plate: Grey RAL7035

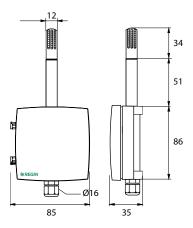
Models

Article	Supply voltage	Output signal
HTWT10	1529 V AC or 1535 V DC	010 V
HTWT10-420	2030 V DC	420 mA

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Dimensions



[mm]

Documentation

All documentation can be downloaded from www.regincontrols.com.

