Temperature and humidity

Duct Humidity and Temperature Transmitter, 4–20mA, 0–10V or RS485

Model DW-HT

Duct-mounted humidity and temperature transmitter for −40 to +80 °C and 0–100% RH, with ±0.5 °C and ±3% RH accuracy, 4–20 mA, 0–5 V, 0–10 V or RS485 (Modbus RTU) output and a 10–30 V DC supply, for HVAC ducts.



Measuring range (temperature)
−40 to +80 °C

Measuring range (humidity)
0–100% RH

Output
4–20 mA, 0–5 V, 0–10 V or RS485

Features

- Flange mounting with silicone sealing ring for duct insertion
- 4–20 mA, 0–5 V, 0–10 V or RS485 (Modbus RTU) output
- Optional LED display
- Spring-type screwless wiring terminals
- EMC-resistant design with industrial-grade chips
- 10–30 V DC wide-range supply

Applications

HVAC duct control for comfort and energy saving, Factories, museums, schools and printing houses, Outdoor air reference, Light industry

Specifications

Performance

Measuring range (temperature)	−40 to +80 °C
Measuring range (humidity)	0–100% RH
Temperature accuracy	±0.5 °C (at 25 °C)
Humidity accuracy	±3% RH (at 60% RH, 25 °C)
Long-term stability (temperature)	≤0.1 °C/year
Long-term stability (humidity)	≤1% RH/year

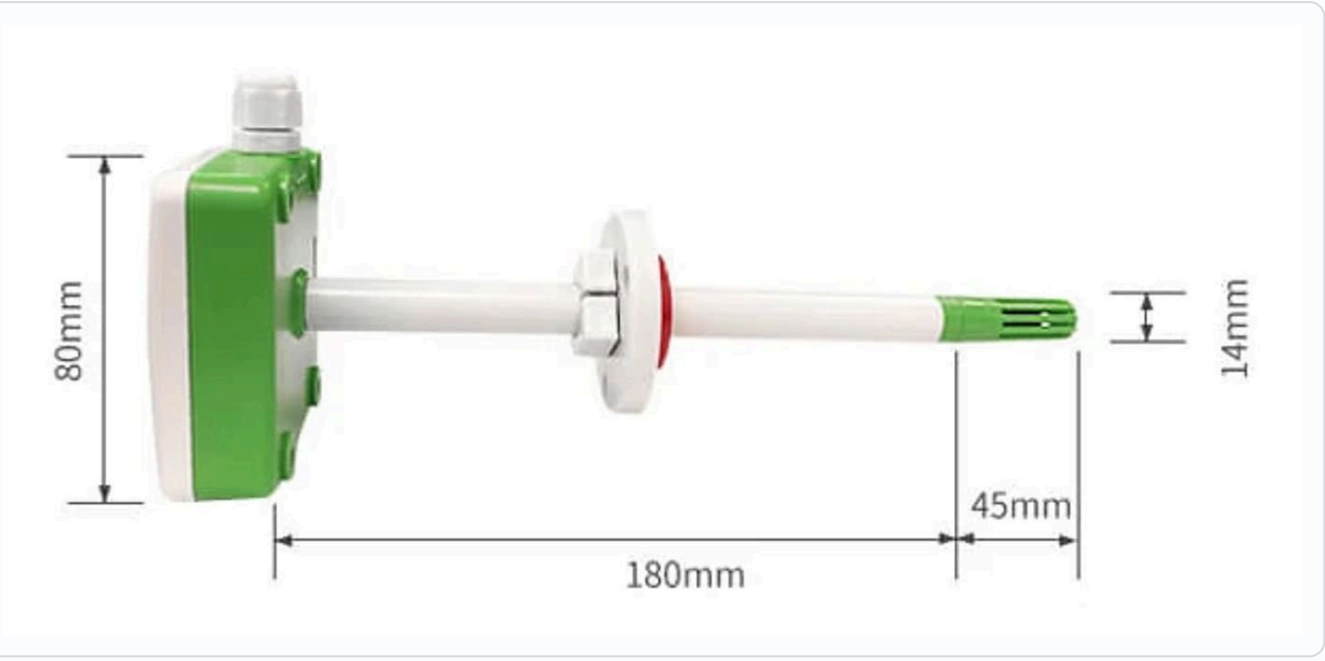
Response time	Temperature ≤25 s, humidity ≤8 s (air speed 1 m/s)
Output	
Output signal	4–20 mA / 0–5 V / 0–10 V / RS485 (Modbus RTU)
Display	Optional LED display
Electrical	
Power supply	10–30 V DC
Power consumption	Max. 0.1 W (RS485); 1.3 W (analog)
Wiring	Spring-type screwless terminals, 0.3–2.0 mm^2 wire
Environmental	
Operating temperature	−20 to +60 °C, 0–80% RH (electronics)
Mechanical	
Installation method	Duct insertion through a 16 mm hole; flange with silicone seal, 3 screws
Dimensions	Housing 80 × 80 mm; probe 180 mm long, Ø14 mm tip with 45 mm sensing section; flange Ø57 mm, 3 × Ø4 mm holes

Ordering and support

Pricing, samples, lead time and custom versions: xyx@gzdwin.com, +86 181 0280 8901.

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Dimensions and wiring



Drawings are for reference. Dimensions in millimetres unless stated.