Temperature and humidity

Dew-Point Transmitter for Compressed Air, RS485 plus 4–20mA, 16 bar

Model DW-DPT

Dew-point transmitter for compressed air and dryers, measuring −60 to +60 °Ctd at up to 16 bar with ±2 °Ctd accuracy, RS485 (Modbus RTU) plus one analog output, in a Ø30 mm stainless steel body with M12 connector and IP65.



Measuring range
−60 to +60 °Ctd

Accuracy
±2 °Ctd

Output
RS485 + 4–20 mA or voltage

Features

- For low-humidity compressed air at pressures up to 16 bar
- RS485 (Modbus RTU) plus one analog output: 4–20 mA, 0–20 mA, 0–1 V, 0–5 V or 0–10 V
- Temperature compensation and linear adjustment
- Dew-point scaling set with free PC software
- R1/2, G1/2 or 5/8" UNF process thread
- Optional plug-on LED display

Applications

Compressed air systems, Refrigerated and desiccant dryers, Freezers, Plastic dryers and industrial drying, Paper and chemical processes

Specifications

Performance	
Measuring range	−60 to +60 °Ctd
Accuracy	±2 °Ctd (at +25 °C), ±0.02% FS/°C
Response time	< 20 s (at +25 °C)
Pressure rating	16 bar

Output	

Output signal	RS485 (Modbus RTU) + 1 analog output: 0–20 mA / 4–20 mA / 0–1 V / 0–5 V / 0–10 V
Wiring	3-wire

Electrical

Power supply	8–35 V DC or 10–30 V AC
Operating current	50 mA at 24 V DC
Electrical connection	M12 5-pin connector; 2 m PVC 5-core waterproof cable as standard

Mechanical

Process connection	R1/2" (1/2" PT), G1/2" or 5/8" UNF
Housing material	SUS304 stainless steel
Probe material	SUS304 stainless steel with SUS316 sintered filter
Dimensions	Ø30 × 136 mm overall (98 mm body)
Weight	233 g
Display	Optional plug-on LED display

Environmental

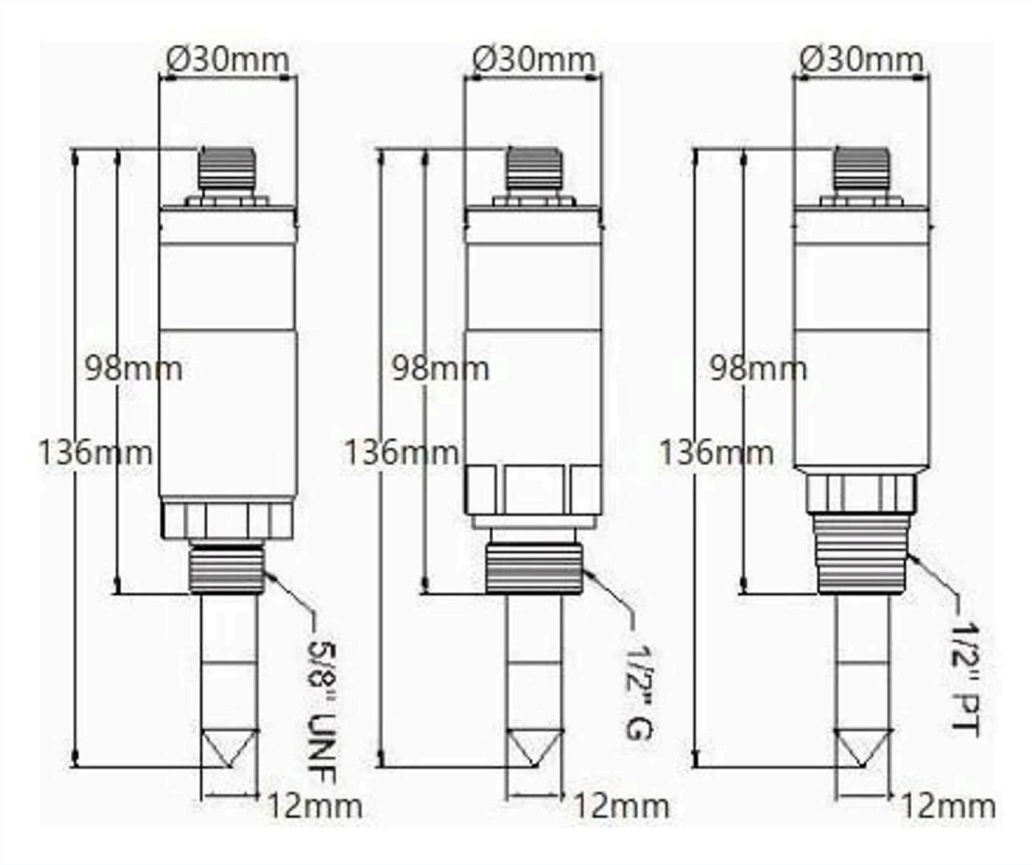
Operating temperature	−40 to +80 °C (housing); −70 to +80 °C (probe)
Operating humidity	0–95% RH
Storage temperature	−25 to +60 °C
Ingress protection	IP65 (body); IP20 (probe)

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.