

# Model PDT



## Dewpoint Transmitter

### 4-20mA Transmitter

---

#### FEATURES

- **2 Wire Dewpoint Transmitter**
- **Range: -40°C to +30°C Dewpoint**
- **Accuracy  $\pm 2^{\circ}\text{C}$  Dewpoint**
- **Temperature Compensation**
- **Long Term Stability**
- **Fast Response**
- **IP65 / NEMA4 Protection**



**Model PDT Dewpoint Transmitter** is a two wire 4-20mA transmitter for continuous measurement of moisture in a process gas or compressed air that gives a linear 4-20mA signal corresponding to the dewpoint. It is ideally suited for monitoring the moisture content of compressed air from refrigerant driers. The Model PDT transmitter can also be factory configured to give a 4-20mA linear signal for %RH.

The long lasting sensing element offers excellent sensitivity, repeatability and response speed. Each unit is supplied with a Certificate of Calibration, traceable to International Humidity Standards, validating accuracy to  $\pm 2^{\circ}\text{C}$  dewpoint.

The Model PDT transmitter has been designed to cope with extreme environmental conditions. The rugged stainless steel construction offers protection to IP65 (NEMA4), with transmitter electrical connections made via secure industrial connector.

Model PDT transmitter can withstand 1,600 kPa (16bar) maximum pressure and if installed using a low resistance cable, the transmitter can be located significant distances, in excess of 1000 metres, from the safe area.

Designed with the operator in mind, for reliable and accurate measurements, Model PDT is extremely easy to install and operate, requiring little or no maintenance.

The Model PDT transmitter is supplied with a Certificate of Calibration, an instruction manual and 2m connecting cable.

## Technical data Model PDT

<b>Measuring range</b>	:	-40...30 °C dewpoint, or factory set option 0...100%RH
<b>Accuracy</b>	:	± 2 °C dewpoint
<b>Pressure range</b>	:	-1...16 bar
<b>Power supply</b>	:	24 VDC (10...30 VDC)
<b>Protection class</b>	:	IP 65
<b>EMC</b>	:	according to DIN EN 61326
<b>Operating temp.</b>	:	-20...70 °C
<b>Electrical connection</b>	:	M12, 5-pole
<b>Thread</b>	:	G1/2"
<b>Dimensions</b>	:	Ø 30 mm, length 130 mm
<b>Output</b>	:	4...20 mA = -40...30 °C dewpoint
<b>Analogue output max load</b>	:	500 Ω

