



STORK

INSTRUMENTS



Dewcom Pro

Datasheet

Description

The Dewcom Pro is a transmitter designed to measure low dew points, down to -100°C . The Pro model is the ideal choice for industrial applications requiring high measurement accuracy at the extremes of the measurement range. It is suitable for use in industries such as semiconductor and battery manufacturing, pure gas production, demanding compressed air systems, and wherever a highly accurate dew point measurement instrument is required.

At the heart of the Dewcom Pro is a Bi-ceramic capacitive sensor that ensures excellent accuracy and measurement repeatability. The detector is highly resistant to contamination thanks to a filter that blocks dirt particles.



Features

- Measurement ranges: -100°Cdp up to $+20^{\circ}\text{Cdp}$ or 0 to 1000ppm(V)
- 2-wire current loop power connection 4–20 mA
- Accuracy: $\pm 2^{\circ}\text{Cdp}$
- Calibration certificate
- Power voltage range: 10 to 28V DC

Typical applications

- Glove boxes
- Compressed air Class 1 to Class 6 dryers
- Inert gases
- Semiconductor and battery manufacturing

Technical data

Performance specifications

Measurement range	-100°Cdp to +20°Cdp or 0 to 1000ppm(V)
Accuracy	±2°Cdp
Response time	T ₉₅ = 5 min (dry to wet)
Repeatability	0,5°Cdp
Calibration	Traceable 10-point calibration certificate

Electrical specifications

Output signal	4-20mA current source
Analog output prescaled range	ppm(V) or °C dew point
Supply voltage	10-28 V DC
Current consumption	max. 23mA loop current
Sensor fault condition	23mA Under-range dew point: 4mA Over-range dew point: 20mA
Load Resistance	Max 50 Ω @ 10 V (700 Ω @ 28 V)
Compliances	CE marked

Operating specifications

Storage temperature	-40°C to +60°C
Operating temperature	-40°C to +60°C
Operating environmental humidity	0-90% RH
Operating pressure	45MPa (450bar)
Flow rate	0.2l/min to 5l/min

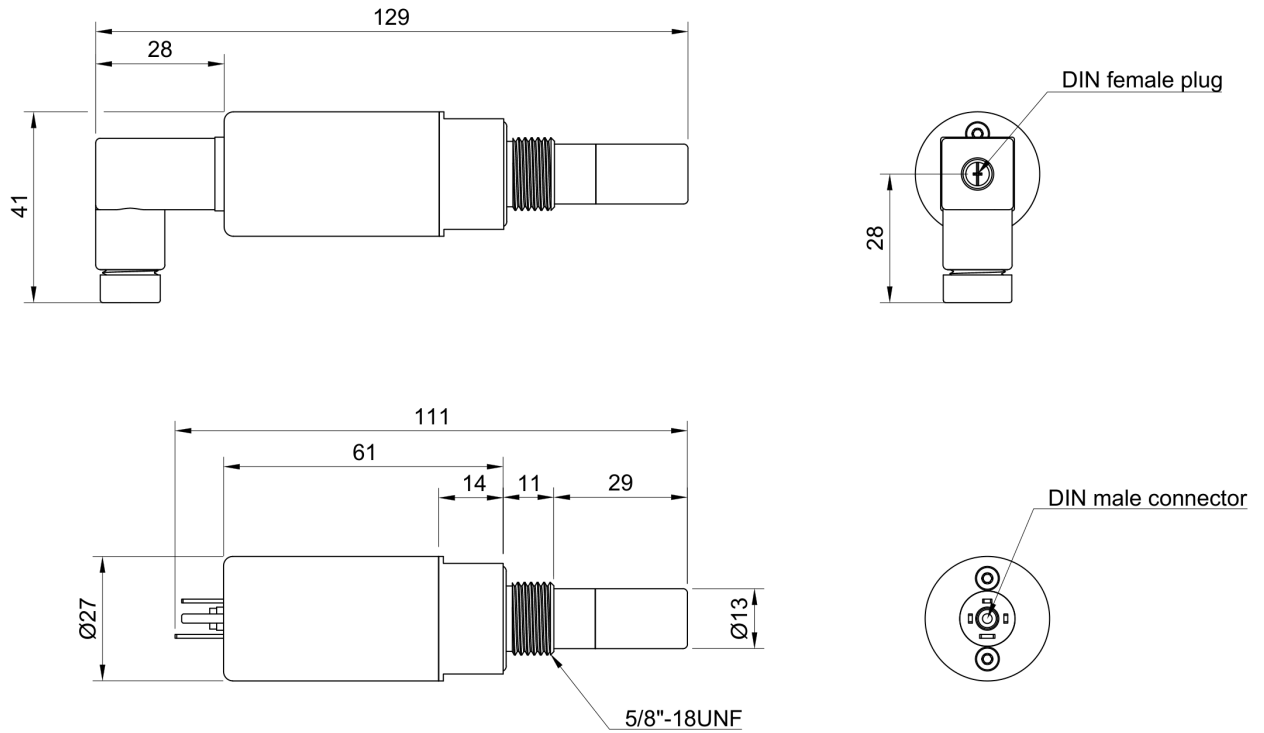
Mechanical specifications

Ingress protection	IP66 (when installed)
Mechanical connection	5/8"-18UNF
Weight	171g
Electrical connection	DIN 43650, 4-pin connector
Filters (sensor protection)	HDPE-sintered high-density polyethylene SS-sintered stainless steel OF-open-flow stainless steel

Materials specifications

Housing material	304 stainless steel
Thread material	304 stainless steel

Dewcom Pro dimensions



Compliance

This product meets the essential requirements of relevant EU directives and standards. It is CE marked and fully compliant with the RoHS Directive 2011/65/EU (as amended), ensuring restriction of hazardous substances in electrical and electronic equipment.