iOCTO

Dew Point Sensor
NP330-G

Measuring trace humidity

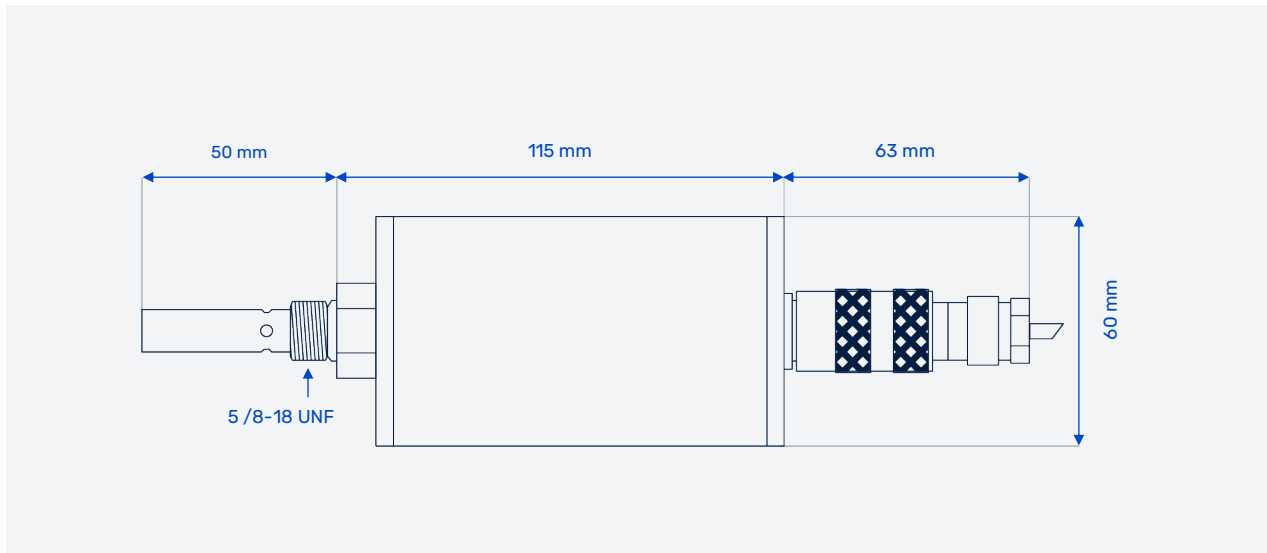**Dew point sensor for measuring trace humidity in gases**

— Inline transmitter designed to measure the absolute moisture in gases, in °C dew / frost point (optional ppmW / ppmV)
— Programmable switching output as alarm signal
— Calibrated against cooled mirror dew point meter
— Quality assurance of air-drying systems
— Cost savings during the drying process
— Can be delivered as OEM product

Features

— Multipoint calibration (over 60 points)
— Temperature compensation
— High measuring accuracy
— Short response times
— High pressure and shock resistance
— High medium compatibility
— Also available for mil ranges
— Diverse display, transmission and evaluation options
— Mechanical extensions available for different immersion depths (120 mm and 430 mm)
— Calibration certificate according to DIN EN ISO/IEC 17025:2018-03

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Dimensions

Application fields e.g.

— Monitoring of air preparation facilities
— Dryer control (refrigeration dryer, adsorption dryer, etc.)
— Monitoring of compressors
— Monitoring of laboratories/research facilities
— Production of synthetic materials
— Stock & container control
— Paper & textile industry
— Building services engineering (heating, ventilation, air conditioning)
— Battery cell production
— Pharmaceutical industry
— Food industry
— Residual moisture measurement in gases

Accessories

— Table display
— Mobile data logger P005
— Sensor chamber
— Sensor connection cable
— 1/2 -inch thread adaptor
— PC software autocali

Technical Data

— **Measuring range dew/frost point**
-80°C dp to +20°C dp
(other ranges on request)
— **Operating temperature**
-20°C to +60°C
— **Calibration and output for 4-20mA output**
dew point, ppmW, ppmV
— **Current output**
4–20mA
— **Serial interface**
RS232
— **Switching output**
24 V DC / max. 70mA
— **System pressure**
up to 300 bar (4350 psi)
— **Supply**
18-28 V DC / max. 70mA
— **Standard mounting depth**
50 mm with ½-inch thread
(optional mounting depths: 120 mm or 430 mm)
— **Protection type**
IP65

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Article		Order Number
Sensor NP330-G, length of shaft 50 mm (-80/+20°C dp, ppmW or ppmV)	NP330-G Standard	12940
Sensor NP330-G, length of shaft 120 mm (-80/+20°C dp, ppmW or ppmV)	NP330-G 120 mm	10076
Sensor NP330-G, length of shaft 430 mm (-80/+20°C dp, ppmW or ppmV)	NP330-G 430 mm	20685
Sensor NP330-G, length of shaft 50 mm (-100/+20°C dp, ppmW or ppmV)	NP330-G Standard	18846
Sensor NP330-G, length of shaft 120 mm (-100/+20°C dp, ppmW or ppmV)	NP330-G 120 mm	22508
Sensor NP330-G, length of shaft 430 mm (-100/+20°C dp, ppmW or ppmV)	NP330-G 430 mm	23394
Other ranges on request		
Accessories		
Sensor Connection Cable, 5 m	NP390	12938
Sensor Chamber Material Stainless Steel 1.4301 Connection Thread G1/8-inch	NP338	13981
Mobile Data Logger	P005	13994
Table Display 0 to 1999 ppm H_2O	NP415	13976
PC-Connecting Kit incl. Power Supply, Sensor Cable, Serial Cable	NP374	13997
Software		
Autokali Software	4.4.3	412
Services		
Calibration NP330-G		100248
Customer-specific validation of devices (on request)		