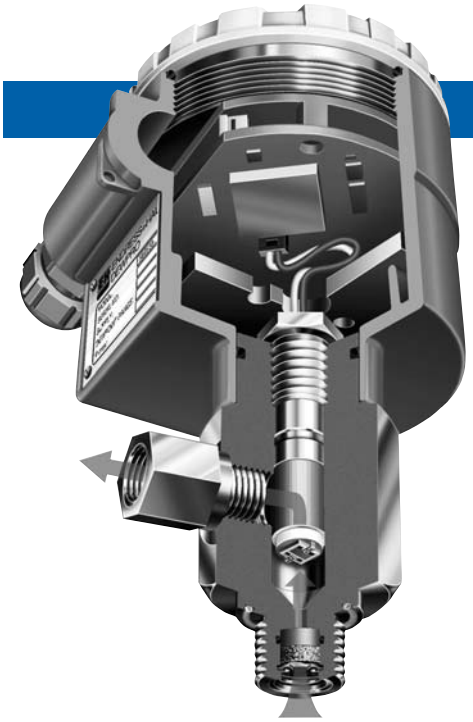


Trace moisture transmitter

DewPro® MMY 30

The DewPro® is a loop powered dewpoint transmitter. It is specially designed to meet the needs of the desiccant air dryers marketplace. Because of the ‚three in one concept', the MMY30 is unique on the market. Sensor, sample conditioning system and 2 wire, loop powered transmitter are included in one compact design.

Measurement at either atmospheric pressure or line pressure is possible depending on the location of the calibrated orifice fitting at the inlet or outlet. Mounted either in a header outlet or in a purge exhaust line, the DewPro can provide precise control of dryer tower switching and continuous management of air supply and energy usage, but also other applications might be applicable for usage of the MMY30 as well.

The MMY30 is available as an option for displaying the measurement in dewpoint temperature or ppm-v and provides a user interface for adjusting the functionality of the MMY30.

The DewPro MMY30 is designed intrinsically safe which enables installation in zone 2 with a manufacturer declaration

Options:

- Display with user interface
- English or metric fittings
- FM approval to Class 1 - Division 1
- External display with loop power supply and alarm contacts

Features:

- Simple, 24 VDC, two wire connection
- Fast response of capacitive sensor on ceramic substrate
- Sample conditioning provides integral filtering, flow regulation and pres sure regulation
- Field calibration/check with optional MMY245
- Robust design in NEMA 4X (IP66) housing
- FM approved (Class 1) - Division 2 standard (**)

Specifications:

Sensor element:	Gold/aluminum oxide, capacitance principle
Measuring range(s):	-90°C to +20°C dew point temperature; 0 to 10 ppm-v, 0 to 100 ppm-v or 0 to 1000 ppm-v (adjustable with integrated display)
Recommended calibration cycle:	6 to 24 months, depending on the application and the required accuracy
Calibration accuracy:	±2°C dewpoint
Repeatability:	±1°C dewpoint
Maximum RH:	50% at dew point > 0°C
Temperature coefficient:	< 0,2°C/°C
Operating and storage temperature:	-40°C to +60°C
Max. operating pressure:	30 bar (450 psig)
Helium leak rate:	<10 $^{-6}$ mbar l/s

Temperature coefficient:	ΔTd /ΔT < 0,2°C/°C
Air bleed off at 7 barg:	app. 28 s l/h
Signal output:	4 - 20 mA, 16 µA resolution
Flow block:	Stainless steel 1.4571
Process connection:	G 1/2“ (DIN ISO 228) or 1/2“ MNPT
Sealing:	Viton O-Ring seal
Wrench width for flow block:	42 mm
Electronics:	Microprocessor-controlled
Power supply:	24 VDC nominal, 12 to30 VDC range
Protection:	NEMA 4X (IP 67)
Weight:	1,5 kg (3.2 lb)

* Specifications subject to change without notice

Product structure:

MMY 30 - **1** **2** **3** **4** **5**

1 Certificates

- R Standard, including calibration certificate
- A FM-Approved intrinsically safe Class I, II, III, Div.1, Grps. A-G (I.s. power supply or i.s. barriers required)
- B FM-Approved intrinsically safe Class I, Div.1, Grps. A-D
- C Non-incendive Class I, Div 2, Grps. A-D, dust ignition proof Class II, III, Div.1, Grps. E-G
- Y Others

2 Process connection

- 1 1/2 “M NPT
- 2 G 1/2” male thread
- 9 Others

3 Orifice configuration/application

- A Orifice at outlet for pressure dewpoint
- B Orifice at outlet for pressure dewpoint with outlet with 6 mm/1/4” tube fitting
- C No orifice at inlet or outlet with 6 mm/1/4” tube fitting at outlet
- D Orifice at inlet for atmospheric pressure dewpoint and 6 mm/1/4” tube connection at outlet

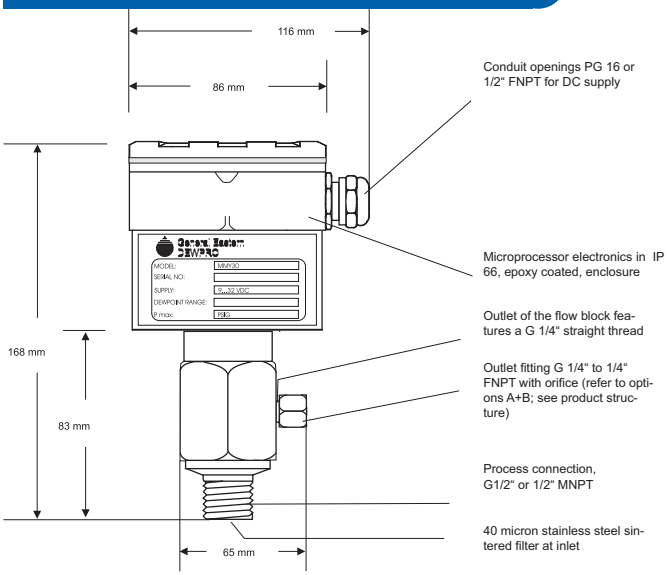
4 Enclosure conduit

- 1 1/2 “ FNPT-
- 2 PG 16 - cable gland
- 9 others

5 Range/Display/Fault status

- A Td -90 . . . 10°C, without display, 22 mA
- B Td -90 . . . 10°C, without display, Hold
- C Td -90 . . . 10°C, without display, 3,6 mA
- D 0-100 ppm, 1bar, without display, 22 mA
- E 0-100 ppm, 1bar, without display, Hold
- F 0-100 ppm, 1bar, without display, 3,6 mA
- G With display and user interface

Dimensions:



* When selecting the 1/2“ M NPT process connection the outlet connection will come with the 1/4“ process connection at the outlet
When selecting the G 1/2“ process connection the outlet connection will come with the 6“ process connection at the outlet

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Your supplier:

FGE, eng. 04.03.Rev 2.0 MMY 30