

SF52 Dew-Point Transmitter

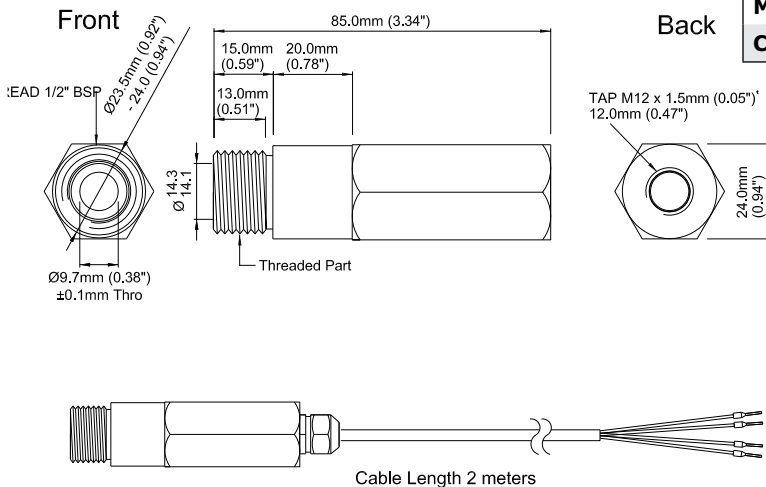


The SF52 dew-point transmitter from Michell Instruments can provide 4–20 mA or voltage signal for either dew point or absolute humidity with excellent accuracy and linearity. The robust housing, together with an operating pressure of up to 20 barg / 300 psi, makes the SF52 ideal for many dew-point and moisture measurement applications.

Highlights

- Designed for OEM applications
- Dew-point or Absolute humidity output
- Flush fitting filter disc for minimal flow disturbance
- Excellent linearity and temperature compensation

Dimensions

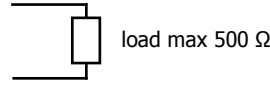


Technical Specifications

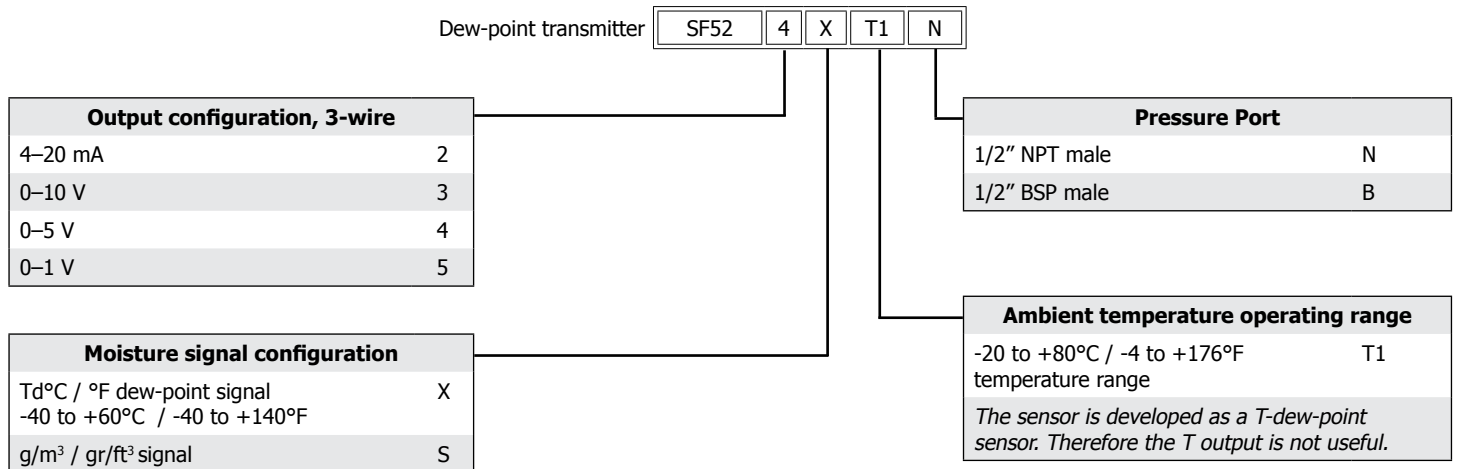
Performance	
Measurement range (dew point)	-40 to +60°C / -40 to +140°F, dew-point temperature
Measurement range (absolute humidity)	0 to 200 g/m ³ / 0 to 87.4 gr/ft ³
Accuracy (dew point)	<±2°C (-20 to +60°C) <±3.6°F (-4 to +140°F)
Accuracy (absolute humidity)	0.4 to 3 g/m ³ / 0.175 to 1.311 gr/ft ³ on value of absolute humidity
Stability	<1°C/year (1.8°F/year)
Response time	<10 sec typical (90% of the step change)
Electrical output/input	
Output signal	0–1, 0–5, 0–10 V or 4–20 mA
Supply voltage	8–30 VDC (14–30 VDC for 0–10 V output)
Current consumption	9 mA + load current
Supply voltage influence	±0.005 % RH/V
Operating conditions	
Operating humidity Probe, Housing, Storage	0–95% RH (non-condensing)
Operating temperature Probe, Housing Storage	-30 to +85°C / -22 to +185°F -40 to +85°C / -40 to +185°F
Operating pressure	20 barg / 300 psi maximum
Temperature coefficient	Temperature compensated across operating temperature range
Mechanical specification	
Ingress protection	IP65
Housing material	Nickel-coated brass
Dimensions	L=85mm, ø24mm / L=3.34", ø 0.94" (max)
Filter	HDPE front filter
Weight	320g / 11.29oz
Mechanical connections	G ½" BSP (DIN ISO 228) or ½" NPT
Cable	2m / 6.5'

Accessories and spare parts	
HDPE front filter (standard)	A000019
Bonded seal, (DIN ISO 228) G½"(BSP) (standard)	A000340
Sample block	A000350
Sample block with filter	A000351

Electrical Connections	
Cable	Voltage output/mA output
White	Power supply V+
Green	Output Td+
Brown	Common ground



Order codes



Example: SF52 4 X T1 N

Dew-point transmitter SF52, 0–5 V output, Td°C / °F dew-point signal -40 to +60°C / -40 to +140°F, temperature operating range -20 to +80°C / -4 to + 176°F, 1/2" NPT pressure port.

Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: SF52_97181_V1_UK_1009