SF52 Dew-Point Transmitter





The SF52 dew-point transmitter is a simple, cost effective sensor designed for use in harsh industrial dryer applications where reliability and toughness are required at an economical cost.

The SF52 is available with a choice of G1/2" and 1/2" NPT process connections and voltage or mA outputs. A key feature of the unit is the recessed and protected measuring element giving an extended sensor life cycle.

Our polymer based sensor is calibrated on a high volume traceable calibration system, providing OEM quantities of units on short deliveries, each with a 3 point calibration certificate.

Highlights

- · Ideal for OEM dryer use
- Dew-point measurement range -40 to +60°C (-40 to +140°F)
- Fast response
- Rugged IP65 construction
- · 3-Point traceable calibration certificate
- Accuracy ±2°C (±3.6°F)
- Voltage or mA outputs

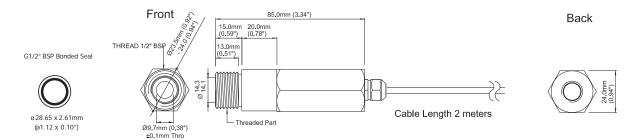
Technical Specifications

recillical Specifi	Cations				
Performance					
Measurement range	-40 to $+60$ °C (-40 to $+140$ °F) dew point				
Accuracy	±2°C (±3.6°F) dew point				
Repeatability	0.5°C (0.9°F) dew point				
Accuracy (absolute humidity)	0.4 to 3g/m³ on value of absolute humidity				
Stability	<1°C (<1.8°F) / year				
Calibration	Traceable 3-point calibration certificate				
Electrical Specifications					
Output signal	0 to 1, 0 to 5, 0 to 10 V or 4-20 mA (3-wire)				
Output	Dew point, absolute humidity				
Analog output scaled range	Standard -40 to +60°Cdr -30 to +30°Cdr 0 to 200 g/m³ Non-standard available up	o (-22 to +86°Fdp)			
Supply voltage	14 to 30 V DC (for 0 to 10 V output) 8 to 30 V DC (for 0 to 1 / 0 to 5 V / 4–20 mA output)				
Current consumption	V output <9 mA mA output <29 mA				
CE marked	Certified				
Operating Specifica	tions				
Operating humidity	0–100% RH				
Operating temperature	-40 to +60°C (-40 to +140°F)				
Operating pressure	2 MPa (20 barg / 290 psig maximum)				
Thermal compensation	Characterized over operating range temperature				
Mechanical Specifications					
Ingress protection	IP66 in accordance with standard BS EN 60529:1992 NEMA 4 in protection accordance with standard NEMA 250-2003				
Housing material	Nickel-coated brass				
Dimensions	L=85mm, ø24mm (maximum)				
Filter	HDPE front filter				
Process connection	G1/2" BSP, 1/2" NPT				
Weight	320g (11.3oz)				
Cable	2m (6.6') of halogen-free TPE cable				
Diagnostic conditions (factory programmed)	Condition Sensor fault Under-range dew point Over-range dew point	Output 23 mA 4 mA 20 mA			



SF52

Dimensions



Electrical Connections

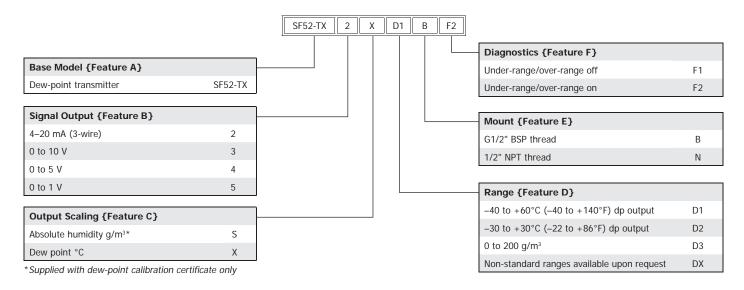
4–20 m/	4–20 mA connections 3-wire Voltage connections 3-wire		e connections 3-wire
White	Power	White	Power
Green	Output mA	Green	Output voltage
Brown	Common ground	Brown	Common ground

Ordering Codes

To construct the order code, select the relevant feature from the tables below, starting with the base model, which is {Feature A} and then add on options to create a string: {Feature B} + {Feature B} + {Feature D} + {Feature E}

Order example: SF52-TX + 2 + X + D1 + B + F2

SF52 dew-point transmitter, 4–20 mA, dew-point scaling, dew-point range -40 to +60°C (-40 to +140°F), G1/2" BSP process connection, under-range/over-range diagnostics.



Accessories and Spare Parts

HDPE filter	A000019
Bonded seal, (DIN ISO 228) G1/2" (BSP)	A000340
Sample block without filter (G1/2" BSP only)	A000350
Sample block with filter (G1/2" BSP only)	A000351

Michell Instruments, Inc 319 Newburyport Turnpike, Suite 207, Rowley, MA 01969

Tel: 978 484 0005, Fax: 978 843 7669, Email: us.info@michell.com, Web: www.michell.com/us

Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice. Issue no: SF52_97181_V5_US_0715

HAUSNET S.R.L.





