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

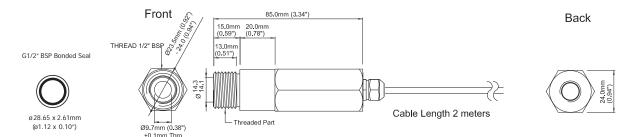
- · Ideal for OEM dryer use
- Dew-point measurement range -40 to +60°C (-40 to +140°F)
- · Fast response
- Rugged IP65 construction
- 3-Point traceable calibration certificate
- Accuracy ±2°C (±3.6°F)
- Voltage or mA outputs

Technical Specifications

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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°C (-40 to +140°F) -30 to +30°C (-22 to +86°F) Non-standard available upon request					
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 Specifications						
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				



Dimensions



Electrical Connections

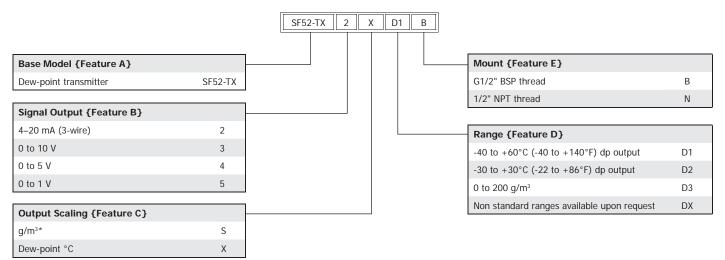
4-20 mA connections 3-wire		Voltage connections 3-wire	
White	Power	White	Power
Green	Output mA	Green	Output voltage
Brown	Brown Common ground	Brown	Common ground

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 A} + {Feature B} + {Feature C} + {Feature D} + {Feature E}

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

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



^{*}Supplied with dew point calibration certificate only

Accessories and Spare Parts

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

Issue No: SF52_97181_V4_UK_0913

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

