# **SF52**

## **Dew point transmitter**



The SF Series of Dew Point Transmitters from Michell Instruments can provide 4–20mA 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, makes the SF Series ideal for many dew point and moisture measurement applications.

## **Highlights**

- Dew point or absolute humidity outputs
- Current or voltage output signals
- Excellent linearity and temperature compensation
- Small size
- Digital recalibration
- Flush fitting filter disc for minimal flow disturbance

# Technical Specifications Performan

**Measurement range (dew** -40 to +60°C, dew point temperature **point)** 

politi

Measurement range 0 to 200g/m<sup>3</sup> (absolute humidity)

(absolute numicity)

Accuracy (dew point)  $<\pm2^{\circ}\text{C} (-20 \text{ to } +60^{\circ}\text{C})$ 

**Accuracy (absolute** 0.4–3g/m³ on value of absolute

humidity)

humidity

Stability

<1°C/year

Response time

<10 sec typical (90% of the step

change)

#### **Electrical output/input**

 Output signal
 0-1, 0-5, 0-10 V or 4-20mA

 Supply voltage
 8-30VDC (14-30 VDC for 0-10V)

output)

Current consumption 9

9mA + 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 -30 to +70°C Storage -40 to +75°C

**Operating pressure** 20 Barg maximum

**Temperature coefficient** ±0.05 %/°C

#### **Mechanical specification**

Ingress protection IP65

**Housing material** Nickel-coated brass

**Dimensions** L=85mm, ø24mm (max)

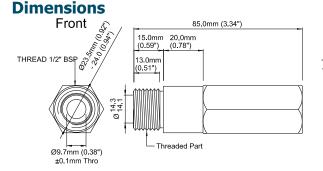
Filter HDPE front filter

Weight 320q

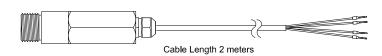
**Mechanical connections** G1/2 (1/2" BSP)

Cable 2m

Back





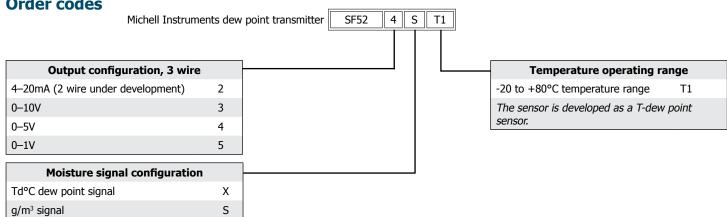




| Accessories and spare parts  |         |
|------------------------------|---------|
| HDPE front filter (standard) | A000019 |
| Bonded seal, G1/2"(BSP)      | A000340 |
| Sample block                 | A000350 |
| Sample block with filter     | A000351 |

| <b>Electrical Connections</b> |                           |
|-------------------------------|---------------------------|
| Voltage output/mA output      |                           |
| White                         | V+                        |
| Green                         | output Td+ Ioad max 500 Ω |
| Brown                         | GND — T                   |

### **Order codes**



Example: SF52 4 S T1

Michell Instruments dew point transmitter SF52, 0-5 volt output, g/m³ moisture signal, -20 to +80°C operating range.

Please note: Michell Instruments adopts a continuous development programme which sometimes necessitates specification changes without notice. Please contact us for latest version. Ref: SF52\_0309

