

## SF82 DEW-POINT TRANSMITTER

A rugged dew-point transmitter for continuous measurement in industrial dryer applications

| <b>Product Parent Code: SF82-TX</b>  |                   |  |
|--|-------------------|--|
| <b>SF82 Transmitter 2-Wire 4-20mA Output</b>   |                   |  |
| <b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}</b> |                   |  |
| Feature  | Item              | Description  |
| <b>Feature {A}</b>   | <b>Base Model</b> |  |
|  | SF82-TX           | A rugged dew-point transmitter for continuous measurement in industrial dryer applications |
| <b>Feature {B}</b>   | <b>Type</b>       |  |
|  | B1                | G1/2" BSP Process Connection   |
|  | B2                | 3/4" UNF Process Connection  |
|  | B3                | 5/8" UNF Process Connection  |
| <b>Feature {C}</b>   | <b>Range *</b>    |  |
|  | C1                | -60/+60°Cdp output scaled 4-20mA range   |
|  | C2                | -50/+50°Cdp output scaled 4-20mA range   |
|  | C3                | -50/+30°Cdp output scaled 4-20mA range   |
|  | C4                | -80/+20°Cdp output scaled 4-20mA range   |
|  | C5                | -20/+50°Cdp output scaled 4-20mA range   |
| <b>Feature {D}</b>   | <b>Protection</b> |  |
|  | D1                | Standard HMWPE guard (for protection against fine particulates (<10 µm))                   |
|  | D2                | SS sintered guard (for protection against fine particulates (<80 µm))                      |
| <b>Feature {E}</b>   | <b>Connector</b>  |  |
|  | E1                | MiniDin 43650 C  |
|  | ** E2             | M12 5 Pin  |
|  | *** E2            | M12 5 Pin  |

\* - Non-standard scaled ranges available upon request - refer to Peter Shepherd

\*\* - Selection of M12 5 pin connector version enables the SF82 to output 4 to 20 mA and Modbus RTU over RS485 outputs

\*\*\* - M12 5 Pin connector is not supplied with the product and should be ordered separately from the accessories list

### Ordering Example

|                            |  |
|----------------------------|--|
| <b>SF82-TX+B1+C1+D1+E1</b> | <b>SF82 Transmitter, 2-wire, 4-20mA output, G 1/2" BSP, measurement range -60 to +60°Cdp, HMWPE guard, MiniDin 43650 C</b> |
|----------------------------|--|

## SF82 DEW-POINT TRANSMITTER ACCESSORIES AND SPARE PARTS

| Order Codes                 | Product / Description  | Process Connection |          |          |
|-----------------------------|--|--------------------|----------|----------|
|                             |  | G1/2" BSP          | 3/4" UNF | 5/8" UNF |
| <b>Spares</b>               |  |                    |          |          |
| SF82-HMP                    | Pack of 10 replacement HMWPE guards (for protection against fine particulates <10µm)                           | ✓                  | ✓        | ✓        |
| SSG                         | SS sintered guard replacement (for protection against fine particulates <80µm)                                 | ✓                  | ✓        | ✓        |
| SSF-PF-10PK                 | Pack of 10 particulate filter cartridges (for protection against fine particulates < 0.1µm (for Sampler Kits)) | ✓                  |          | ✓        |
| GEN-LABEL                   | Additional/replacement transmitter labels (price per 2 off labels)   | ✓                  | ✓        | ✓        |
| BS-12-PK5                   | G1/2" Bonded Seal for process connection (pack of 5)   | ✓                  |          |          |
| OR-34-PK5                   | 3/4" UNF O-ring for process connection (pack of 5)   |                    | ✓        |          |
| BS-58-PK5                   | 5/8" UNF Bonded Seal for process connection (pack of 5)  |                    |          | ✓        |
| EA2-SC                      | MiniDIN sensor connector socket  | ✓                  | ✓        | ✓        |
| <b>Sampling Accessories</b> |  |                    |          |          |
| APT-PAN                     | 5/8" UNF (Internal) to 3/4" UNF (External) Adapter Collar  |                    |          | ✓        |
| APT-GEI                     | 5/8" UNF (Internal) to G1/2" (External) Adapter Collar   |                    |          | ✓        |
| APT-TSO                     | 5/8" UNF (Internal) to 1/2" NPT (External) Adapter Collar  |                    |          | ✓        |
| SB-12                       | G1/2" SS sample block (with 1/8" NPT inlet & outlet ports)   | ✓                  |          |          |
| SB34-SF82                   | SS 3/4" sample block (with 1/8" BSP and 1/4" BSP ports)  |                    | ✓        |          |
| SB-12-QF                    | G 1/2" Quick Fit Sample Block with DN7.2 Quick Connector for compressed air. Outlet vent to atmosphere         | ✓                  |          |          |
| SB-58-QF                    | 5/8" UNF Quick Fit Sample Block with DN7.2 Quick Connector for compressed air. Outlet vent to atmosphere       |                    |          | ✓        |
| CSB                         | 5/8" UNF SS sample block (with 1/8" NPT inlet & outlet ports)  |                    |          | ✓        |
| EA2-SAM                     | 5/8" UNF Sampler Kit (for atmospheric or pressure dp measurements, 145 psig/10 barg max)                       |                    |          | ✓        |

|  |  |   |   |   |
|--|--|---|---|---|
| EA2-SAM-HP                                 | 5/8" UNF HP (High Pressure) Sampler Kit - (for atmospheric or pressure dp measurements, 2900 psig/200 barg max)                  |   |   | ✓ |
| PTFE-xx                                    | PTFE sample tube 6mm (0.24") O/D thick-walled (for Sampler Kit)<br>(xx = length of tube in meters - price per meter- above 0.5m) | ✓ |   | ✓ |
| <b>Electrical Accessories</b>              |  |   |   |   |
| EA2-CAB-0.8                                | Cable, 0.8m (2.62') length with mini-DIN mating socket   | ✓ | ✓ | ✓ |
| EA2-CAB-02                                 | Cable, 2m (6.56') length with mini-DIN mating socket   | ✓ | ✓ | ✓ |
| EA2-CAB-05                                 | Cable, 5m (16.4') length with mini-DIN mating socket   | ✓ | ✓ | ✓ |
| EA2-CAB-10                                 | Cable, 10m (32.8') length with mini-DIN mating socket  | ✓ | ✓ | ✓ |
| EA2-M12-CAB-0.8                            | Sensor Cable, 0.8m (2.62') with M12 Sensor Connector   | ✓ | ✓ | ✓ |
| EA2-M12-CAB-02                             | Sensor Cable, 2m (6.56') with M12 Sensor Connector   | ✓ | ✓ | ✓ |
| EA2-M12-CAB-05                             | Sensor Cable, 5m (16.4') with M12 Sensor Connector   | ✓ | ✓ | ✓ |
| EA2-M12-CAB-10                             | Sensor Cable, 10m (32.8') with M12 Sensor Connector  | ✓ | ✓ | ✓ |
| Other cable lengths available upon request |  |   |   |   |

### SF82 DEW-POINT TRANSMITTER ACCESSORIES AND SPARE PARTS

| Order Codes  | Product / Description  |
|--|--|
| <b>Product Ordering Code {Feature A}+{Feature B}</b> |  |
| <b>Feature {A}</b>                                   | <b>Type</b>  |
|  | EAU-CK Easidew & Pura Universal Comms Kit  |
| <b>Feature {B}</b>                                   | <b>Cable</b>   |
|  | B1 EA2 MiniDIN Connector 0.5m sensor lead  |
|  | B2 EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead                 |
|  | B3 EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin) |

### EAU-CK ACCESSORIES AND SPARE PARTS

|             |   |
|-------------|---|
| EAU-CK-CAB1 | EA2 MiniDIN Connector 0.5m sensor lead  |
| EAU-CK-CAB2 | EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead                 |
| EAU-CK-CAB3 | EA2 5 Way M12 Connector 0.5m sensor lead (not suitable for SF72 Rail M12 4 pin) |

### SF82 DEW-POINT TRANSMITTER SERVICE EXCHANGE

| Order Codes  | Product / Description   |
|--|---|
| <b>Product Ordering Code {Feature A}+{Feature B}+{Feature C}</b> |   |
| <b>Feature {A}</b>   | <b>Type</b>   |
|  | SF82-TX-X Base unit   |
| <b>Feature {B}</b>   | <b>Type</b>   |
|  | B1 G1/2" BSP Process Connection   |
|  | B2 3/4" UNF Process Connection  |
|  | B3 5/8" UNF Process Connection  |
| <b>Feature {C}</b>   | <b>Range*</b>   |
|  | C1 -60/+60°Cdp output scaled 4-20mA range   |
|  | C2 -50/+50°Cdp output scaled 4-20mA range   |
|  | C3 -50/+30°Cdp output scaled 4-20mA range   |
|  | C4 -80/+20°Cdp output scaled 4-20mA range   |
|  | C5 -20/+50°Cdp output scaled 4-20mA range   |
|  | (v/wx-yz) Non-standard measurement range:<br>v = zero value, w = full scale value,<br>x = unit (C = °Cdp, F = °Fdp, P = ppmV)<br>y = Pressure for ppmV conversion in bar/psi,<br>z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig<br>e.g. 0-100ppm @ 10barg = 0/100P-10BG |
| <b>Feature {D}</b>   | <b>Protection</b>   |
|  | D1 Standard HMWPE guard (for protection against fine particulates (<10 µm))   |
|  | D2 SS sintered guard (for protection against fine particulates (<80 µm))  |
| <b>Feature {E}</b>   | <b>Connector</b>  |
|  | E1 MinDin 43650 C   |
|  | ** E2 M12 5 Pin   |
|  | ***   |

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### SF82 CALIBRATION SERVICES

|               |   |
|---------------|---|
| SF82-TX-Recal | Recalibration of SF82 Transmitter (Supplied with traceable calibration certificate) |
| READINGS-DPS  | EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead                     |

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Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice.  
Please contact us for latest version. Issue No: SF82\_99974\_V2.1\_UK\_1219