

SF82 DEW-POINT TRANSMITTER

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

Product Parent Code: SF82-TX
SF82 Transmitter 2-Wire 4-20mA Output

Base Model

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

SF82-TX

Type

G1/2" BSP Process Connection

A

3/4" UNF Process Connection

B

5/8" UNF Process Connection

C

Range

-60/+60°Cdp output scaled 4-20mA range

A

-50/+50°Cdp output scaled 4-20mA range

B

-50/+30°Cdp output scaled 4-20mA range

C

-80/+20°Cdp output scaled 4-20mA range

D

-20/+50°Cdp output scaled 4-20mA range

E

Non-standard measurement range:

v = zero value, w = full scale value,

x = unit (C = °Cdp, F = °Fdp, P = ppmV)

y = Pressure for ppmV conversion in bar/psi,

z = pressure unit (PG = psig, PA = psia, BG = barg, BA = bara) blank = 0 barg/psig)

e.g. 0-100ppm @ 10barg = 0/100P-10BG

R

Protection

Standard HMWPE guard (for protection against fine particulates (<10 µm))

A

Electrical Connector

MiniDIN 43650

A

M12 5 Pin

B

5 Pin mating connector is not supplied with the product and should be ordered separately from the accessories list

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

Ordering Example

SF82-TX-AAAA

SF82 transmitter, 2 wire, 4-20mA output, G1/2" BSP, measurement range -60 to +60°Cdp, HMWPE guard, MiniDin 43650

SF82 DEW-POINT TRANSMITTER ACCESSORIES AND SPARE PARTS

Spares

SF82-HMP	Pack of 10 replacement HMWPE guards (for protection against fine particulates <10µm)
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 Viton 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
EA2-SCG	Sensor Connector MiniDIN Gasket

Sampling Accessories

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
APT-KF40-34	KF40 Adaptor Flange for 3/4" UNF Sensors
APT-KF40-58	KF40 Adaptor Flange for 5/8" UNF Sensors
CSB	5/8" UNF SS sample block (with 1/8" NPT inlet & outlet ports)
CSB-14SLF	5/8" sample block with 1/4" Swagelok
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) (xx = length of tube in meters - price per meter- above 0.5m)
EA2-BLC-FIL	Easidew Sampling Block / Filter (with 5/8" UNF Port, 1/4" BSP inlet & 1/8" BSP Outlet ports)
EA2-BLC-FIL-NPT	Easidew Sampling Block / Filter (with 5/8" UNF Port, 1/4" NPT inlet & 1/8" NPT Outlet ports)
Electrical Accessories	
EA2-CAB-0.8	Cable, 0.8m (2.62') length with MiniDIN 43650 mating socket
EA2-CAB-02	Cable, 2m (6.56') length with MiniDIN 43650 mating socket
EA2-CAB-05	Cable, 5m (16.4') length with MiniDIN 43650 mating socket
EA2-CAB-10	Cable, 10m (32.8') length with MiniDIN 43650 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 SERVICE EXCHANGE

Base Model	
Service exchange, reconditioned SF82 (supplied with traceable calibration certificate, old sensor to be returned to MIL in 21 days)	SF82-TX-X
Type	
G1/2" BSP Process Connection	A
3/4" UNF Process Connection	B
5/8" UNF Process Connection	C
Range	
-60/+60°Cdp output scaled 4-20mA range	A
-50/+50°Cdp output scaled 4-20mA range	B
-50/+30°Cdp output scaled 4-20mA range	C
-80/+20°Cdp output scaled 4-20mA range	D
-20/+50°Cdp output scaled 4-20mA range	E
Non-standard measurement range: v = zero value, w = full scale value, x = unit (C = °Cdp, F = °Fdp, P = ppmV) y = Pressure for ppmV conversion in bar/psi, z = pressure unit (PG=psig, PA=psia, BG=barg, BA=bara) blank = 0 barg/psig e.g. 0-100ppm @ 10barg = 0/100P-10BG	R
Protection	
Standard HMWPE guard (for protection against fine particulates (<10 µm))	A
Electrical Connector	
MiniDIN 43650	A
M12 5 Pin	B
5 Pin mating connector is not supplied with the product and should be ordered separately from the accessories list	
Selection of M12 5 pin connector version enables the SF82 M12 to output 4 to 20 mA and Modbus RTU over RS485 outputs	

SF82 CALIBRATION SERVICES

SF82-TX-Recal	Recalibration of SF82 Transmitter (Supplied with traceable calibration certificate)
READING-DPS	Readings before calibration (calibration data recorded before adjustment) - Dew-Point Sensors

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_V6_UK_0625