

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		
Product Ordering Code {Feature A}+{Feature B}+{Feature C}+{Feature D}+{Feature E}		
Feature	Item	Description
Feature {A}	Base Model	
	SF82-TX	A rugged dew-point transmitter for continuous measurement in industrial dryer applications
Feature {B}	Type	
	B1	G1/2" BSP Process Connection
	B2	3/4" UNF Process Connection
	B3	5/8" UNF Process Connection
Feature {C}* Range	Range	
	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
Feature {D}	Protection	
	D1	Standard HMWPE guard (for protection against fine particulates (<10 µm))
Feature {E}	Connector	
	E1	MiniDin 43650 C
	** *** 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

Ordering Example

SF82-TX+B1+C1+D1+E1	SF82 Transmitter, 2-wire, 4-20mA output, G 1/2" BSP, measurement range -60 to +60°Cdp, HMWPE guard, MiniDin 43650 C
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SF82 DEW-POINT TRANSMITTER ACCESSORIES AND SPARE PARTS

Order Codes	Product / Description	Process Connection		
		G1/2" BSP	3/4" UNF	5/8" UNF
SF82-HMP	Pack of 10 replacement HMWPE guards (for protection against fine particulates <10µm)	✓	✓	✓
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 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	✓	✓	✓
APT-GEI	5/8" UNF (Internal) to G1/2" (External) Adapter Collar			✓
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)			✓
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-CAB-10	Cable, 10m (32.8') length with mini-DIN mating socket	✓	✓	✓
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
Product Ordering Code {Feature A}+{Feature B}	
Feature {A}	Base Model
	EAU-CK Cooling/venting coil (3m of 1/4" tube for cooling sample gas or preventing back diffusion of ambient moisture)
Feature {B}	Cable
	B1 Easidew, SF82 & Pura Universal Comms Kit
	B2 EA2 MiniDIN Connector 0.5m sensor lead
	B3 EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead

EAU-CK ACCESSORIES AND SPARE PARTS

EAU-CK-CAB1	Spare EA2 MiniDIN Connector 0.5m sensor lead
EAU-CK-CAB2	Spare EA PRO IS & EA PRO XP Terminal Block Connector 0.5m sensor lead
EAU-CK-CAB3	Spare 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
Product Ordering Code {Feature A}+{Feature B}+{Feature C}	
Feature {A}	Base Model
	SF82-TX-X Base unit
Feature {B}	Type
	B1 G1/2" BSP Process Connection
	B2 3/4" UNF Process Connection
	B3 5/8" UNF Process Connection
Feature {C}*	Range
	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: 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
Feature {D}	Protection
	D1 Standard HMWPE guard (for protection against fine particulates (<10 µm))
Feature {E}	Connector
	E1 MinDin 43650 C
	** E2 M12 5 Pin

SF82 CALIBRATION SERVICES

SF82-TX-Recal	Recalibration of SF82 Transmitter (Supplied with traceable calibration certificate)
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SF82 CALIBRATION SERVICES

SF82-TX-Recal	Recalibration of SF82 Transmitter (Supplied with traceable calibration certificate)
READINGS-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_V3_UK_0221