SF72

Dew-Point Transmitter



The SF72 dew-point transmitter is a compact sensor designed for use in industrial dryer applications at the key -50 to +10°Cdp measuring points, where response speed, reliability and long term stability of data within a control process is critical.

The transmitter is pressure rated to 450 bar, ensuring process gas safety, through the use of a 10-year field-proven stainless steel body and glass-to-metal seal. The SF72 has three alternative industry-standard sample block connections giving form, fit & function benefits.

Our polymer based sensor is calibrated on a high volume traceable calibration system, providing OEM quantities of units, each with an 8-point traceable calibration certificate.

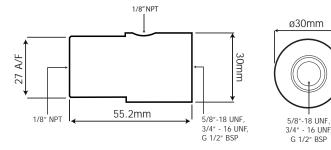
Highlights

- Ideal for membrane and refrigeration dryer use
- Compatible with Compressed Air Quality ISO8573.1 Class 2 to 6 requirements
- Dew point measurement range -60 to +60°Cdp
- Fast response
- 316 stainless steel IP66 construction
- 8-Point traceable calibration certificate
- Accuracy ±2°Cdp
- G 1/2" BSP, 3/4" and 5/8" UNF process connections
- Service exchange program

Technical Specifications

Performance .					
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Measurement range (dp)	−60 to +60°C dew point				
Accuracy (dp)	±2°C dew point				
Repeatability	±0.2°C dew point				
Long term stability	Less than 1% per year at reference conditions				
Calibration	Traceable 8-point calibration certificate				
Electrical Specifications					
Output signal	4–20 mA (2-wire connection, current source)				
Output	Dew point				
Analog output scaled range	Standard −60 to +60°C −50 to +50°C −50 to +30°C Non-standard available upon request				
Supply voltage	12-28 V DC				
Load resistance	Max 250 Ω @ 12 V (500 Ω @ 24 V)				
CE marked	Certified				
Operating Specific	cations				
Operating temperature	−40 to +60°C				
Operating pressure	45 MPa (450 barg) maximum				
Over pressure rating	x2 operating pressure 90 MPa (900 barg)				
Flow rate	1 to 5 NI/min mounted in standard sampling block; 0 to 10 m/sec (0 to 32.8 fps) direct insertion				
Thermal compensation	Characterized over operating range				
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	316 Stainless steel				
Dimensions	L=132mm (incl. connector & HDPE Filter) x ø27mm				
Filter	Standard HDPE Guard <10μm Optional Sintered guard 80μm				
Process connections and material	G 1/2" BSP, 3/4" — 16 UNF, 5/8" — 18 UNF 316 Stainless steel				
Weight	150g				
Electrical connections	Hirschmann GDS series (DIN 4350-C)				
Digital diagnostic communications	RS485, 2-wire Modbus RTU				

Dimensions

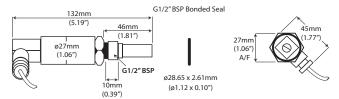


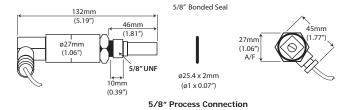
Sample Block (optional)



Issue No: SF72_97324_V3_UK_0215

Dimensions

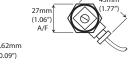




G 1/2" Process Connection

3/4" Process Connection





Electrical Connections

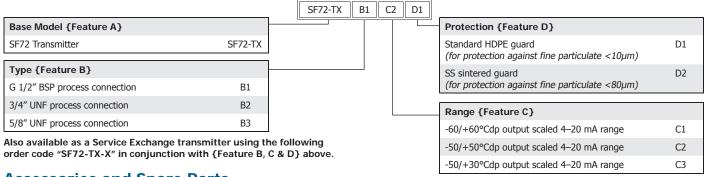
4-20 mA connections 2-wire				
Pin 1	4-20 mA			
Pin 3	POWER			

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}

Order example: SF72-TX+B1+C2+D1

SF72 Transmitter, 2-wire, 4-20 mA output, G 1/2'' BSP, measurement range -50 to +50°Cdp, HDPE guard



Accessories and Spare Parts

		Process Connection Size		
		G 1/2″	3/4"	5/8″
Sensor Protectors	Pack of 10 replacement HDPE guards for protection against fine particulate <10µm	EA2-HDPE	EA2-HDPE	EA2-HDPE
	Stainless steel sintered guard replacement for protection against fine particulate <80µm	SSG	SSG	SSG
	Pack of 10 particulate filter cartridges for protection against fine particulate <25 μ m (for sampler kits)	SSF-PF-10PK		SSF-PF-10PK
Connection Adaptors	3/4" -16 UNF to 5/8" UNF adaptor			APT-PAN
	G 1/2" BSP to 5/8" UNF adaptor			APT-GEI
	1/2" NPT to 5/8" UNF adaptor			APT-TSO
Sampling Blocks	G 1/2" 316 stainless steel sample block (with 1/8" NPT inlet & outlet ports)	SB-12		
	G 1/2" 316 stainless steel sample block with filter (with 1/8" BSP and 1/4" BSP ports)	A000351		
	3/4" stainless steel sample block with filter (with 1/8" BSP and 1/4" BSP ports)		SB-34	
5/8" sampler kit- For atmospl (145 psig / 10 barg max)	5/8" 316 stainless steel sample block (with 1/8" NPT inlet & outlet ports)			CSB
	5/8" sampler kit- For atmospheric or pressure dp measurements (145 psig / 10 barg max)			EA2-SAM
	5/8" HP sampler kit – For atmospheric or pressure dp measurements (2900 psig / 200 barg max)			EA2-SAM-HP
Other Parts per mete KFD0-CS Addition Sensor c Commun	PTFE sample tube $-$ 6mm (0.24") outside diameter, thick-walled (for sampler kit) (price per meter- above 0.5m)	PTFE-xx	PTFE-xx	PTFE-xx
	KFD0-CS-EX1.50P galvanic isolator (Pepperl & Fuchs)	GI-PF-01	GI-PF-01	GI-PF-01
	Additional/replacement transmitter labels (2 Labels)	GEN-LABEL	GEN-LABEL	GEN-LABEL
	Sensor connector	EA2-SC	EA2-SC	EA2-SC
	Communication kit for SF72 transmitter	SF72-CK	SF72-CK	SF72-CK
	BS EN 10204 3.1 material certificate	DP-MC	DP-MC	DP-MC
	Recalibration of SF72 transmitter	READINGS	READINGS	READINGS
	O-rings/Bonded seals for process connection – pack of 5	BS-12-PK5	OR-34-PK5	BS-58-PK5

