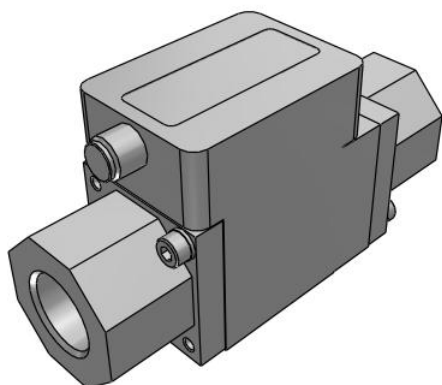




PF3W5, Digital Flow Switch for Water, Remote sensor unit PF3W520-F03-1TN

Datasheet

General series information

- Compact size.
- Rotary display.
- Display visibility improved.
- Built-in temperature sensor.
- IP65, RoHS Compliant & CE Compliant.



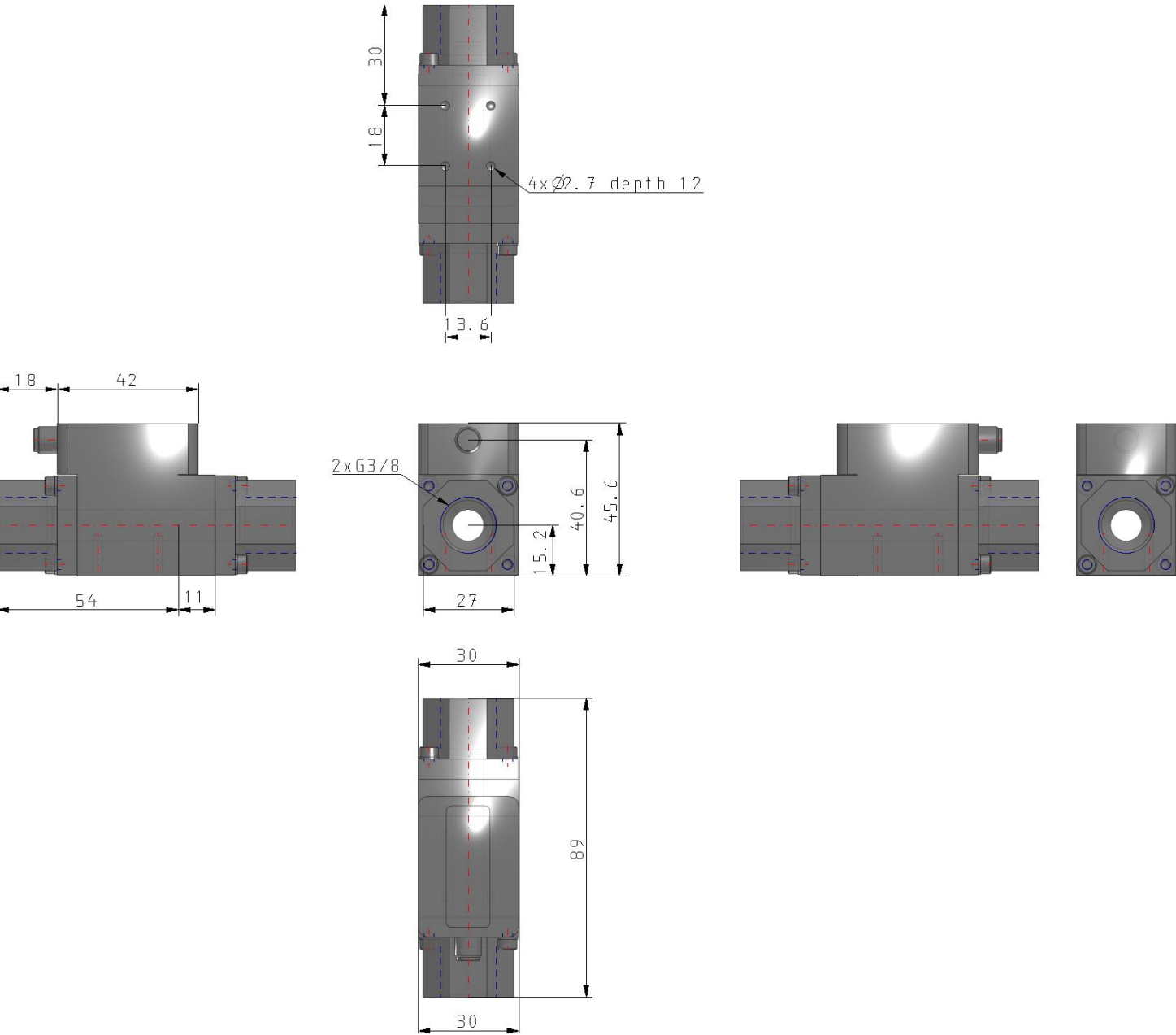
Flow meter with digital display

Standard specifications

Rated Flow Range	20 (2 to 16 l/min)
Flow Adjustment Valve	None
Thread Type	F (G)
Port Size	03 (3/8)
Output Specification	1 (OUT1: Analogue 1 to 5 V)
Temperature Sensor	T (With Temperature Sensor)
Lead Wire	N (Without Lead Wire, With M8 Connector)
Integrated display/Unit specification	Flow Rate: l/min, Temperature: °C
Bracket	None
Calibration Certificate	None
Made to Order	None
General power supply	12 to 24 VDC $\pm 10\%$
Response time	1 s
Current consumption	30 mA or less
Material	PPS, Stainless steel 304, FKM, SCS13, Non-grease
Operating humidity range	Operation, Storage: 35 to 85 % R.H. (No condensation)
Enclosure	IP65
Repeatability	$\pm 2\%$ F.S.

Applicable fluid	Water and ethylene glycol aqueous solution (with viscosity of 3 mPa·s [3 cP] or less)
Analog voltage output	Voltage output: 1 to 5 V Output impedance: 1 kΩ
Operating temperature range	0 to 50 °C (No freezing or condensation)
Pressure range	1.5 MPa
Accuracy	±3 % F.S.
Indicator light	For power supply status, flow rate indicator (Blinking speed changes in response to flow rate.), and other error indicator
Withstand voltage	1000 VAC for 1 minute between terminals and housing
Insulation resistance	50 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing
Temperature characteristics	±5 % F.S. (25 °C standard)
Standards	CE, UL
Flow detection method	Karman vortex
Fluid temperature	0 to 90 °C (No freezing or condensation)
Pressure loss (without flow adjustment valve)	45 kPa or less at the maximum flow
Temperature sensor specifications	Rated temperature range 0 to 100°C, 1 to 5 V, Analog output accuracy ±3 % F.S., Ambient temperature characteristics ±5 % F.S. (25 °C standard), Response time 7 s
Weight	0.320 Kg

Dimensions



Constructions

*This construction image does not include the display



Component Parts

No.	Description	Material	Note
1	Attachment	SCS13	Stainless steel 304 equivalent PF3W704/720/740/711/504/520/540/511
		Stainless steel 304	PF3W721/521
2	Seal	FKM	
3	Body	PPS	
4	Sensor	PPS	
5	Temperature sensor	Stainless steel 304	
6	Temperature sensor body	Stainless steel 304	
7	Flow adjustment valve body	PPS	
8	Flow adjustment valve cover	PPS	
9	Flow adjustment valve shaft	Stainless steel 304	
10	Shaft support	PPS	
11	Seal	FKM	
12	Seal	FKM	

Additional information

Catalogue	PF3W-D_EU.pdf
Declaration of conformity	newDoC_PF3W_TF1Y123EN.pdf newDoC_PF3W_TF1V119EN-A.pdf
Installation manuals	IM_PF3W5_TF2Z082EN.pdf
Operation manuals	OM_PF3W5x_PF-OMN0010EN-J.pdf