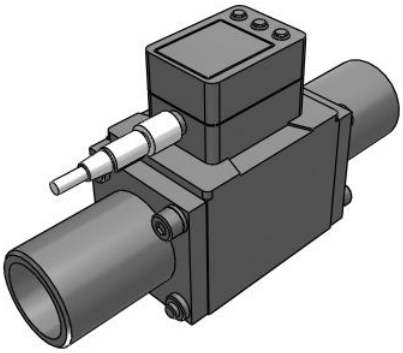


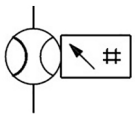
PF3W7-U, Digital Flow Switch for PVC Piping, 3-Colour Display, Integrated display

PF3W711-U25-E-M

Datasheet

General series information

- Digital Flow Switch for PVC Piping
- 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	11 (10 to 100 l/min)
PVC pipe O.D.	25A (ø32)
Output Specification	E (OUT1: PNP - OUT2: Analogue 1 to 5 V)
Lead Wire	With Lead Wire, With M8 Connector
Integrated display/Unit specification	M (Flow Rate: l/min, Temperature: °C)
Bracket	None
Calibration Certificate	None
Proof pressure	1 MPa
General power supply	12 - 24 VDC ±10 %
Response time	0.5 s/ 1 s/ 2 s
Internal voltage drop	1.5 V or less (at load current of 80 mA)
Current consumption	50 mA or less
Material	PPS, FKM, CPVC, Non-grease
Operating humidity range	Operation, Storage: 35 to 85 % R.H. (No condensation)
Enclosure	IP65
Repeatability	±2 % F.S.

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Applicable fluid	Water and ethylene glycol aqueous solution (with viscosity of 3 mPa·s [3 cP] or less)
Maximum load current	80 mA
Analog voltage output	1 to 5 V Output impedance: 1 kΩ
Flow display range	7 to 140 l/min (Flow under 7 l/min is displayed as “0”)
Operating temperature range	0 to 50 °C (No freezing or condensation)
Pressure range	0 to 1 Mpa
Accuracy	Display value: ±3 % F.S. Analogue output: ±3 % F.S.
Smallest settable increment	1 l/min
Hysteresis mode	Variable
Display	2-screen display (Main screen: 4-digit, 7-segment, 2-colour, Red/Green Sub screen: 6-digit, 11-segment, White) Display values updated 5 times per second
Indicator light	Output 1, Output 2: Orange
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
Switch output protection	Short-circuit protection
Fluid temperature	0 to 70 °C (No freezing or condensation)
Pressure loss (without flow adjustment valve)	45 kPa or less at the maximum flow
Conversion of accumulated pulse (Pulse width: 50 ms)	1 L/pulse
Display unit	Instantaneous flow: l/min, Accumulated flow: L
Accumulated flow range	999999999 L
Switch output mode Flow rate	Select from Hysteresis, Window comparator, Accumulated output, or accumulated pulse output modes.
Set flow range	7 to 140 l/min
Switch output Max. applied voltage	28 VDC
Accumulated flow range increment	By 1 L
Analogue output response time	0.5 s/1 s/2 s (linked with the switch output)
Weight	0.370 Kg

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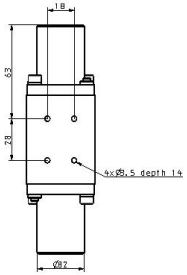
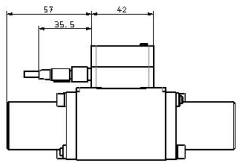
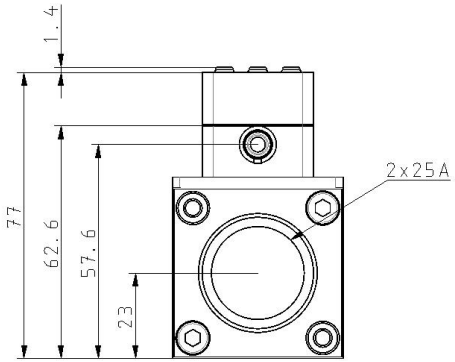
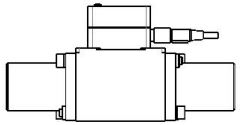
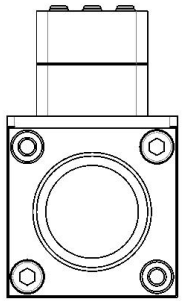
Dimensions

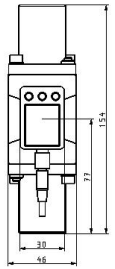












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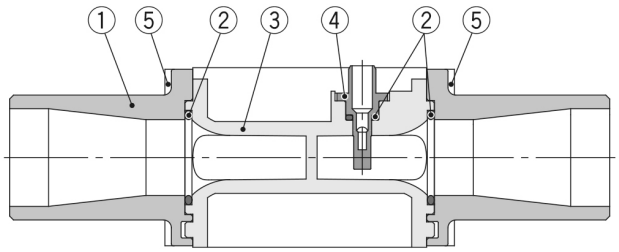
Constructions

*This construction image does not include the disply



Component Parts

No.	Description	Material	Note
1	**PVC pipe**	CPVC	
2	**Seal**	FKM	
3	**Body**	PPS	
4	**Sensor**	PPS	

Replacement Parts

No.	Description	Part no.	Qty.
1	**PVC pipe (25A)**	ZS-40-U25	1
	PVC pipe (30A)	ZS-40-U30	1
5	**25A retaining plate (With two M5 x 80 hexagonal socket head cap screws)**	ZS-40-U25-A	1
	30A retaining plate (With two M5 x 65 hexagonal socket head cap screws)	ZS-40-U30-A	1

* Replacing the PVC pipe may cause accuracy to fluctuate by 1 to 2 %.

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Additional information

Catalogue	PF3W-D_EU.pdf
Declaration of conformity	newDoC_PF3W_TF1Y123EN.pdf newDoC_PF3W_TF1V119EN-A.pdf
Installation manuals	IM_PF3W7_TF2Z076EN.pdf
Operation manuals	OM_PF3W7x_PF-OMM0005EN-N.pdf

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