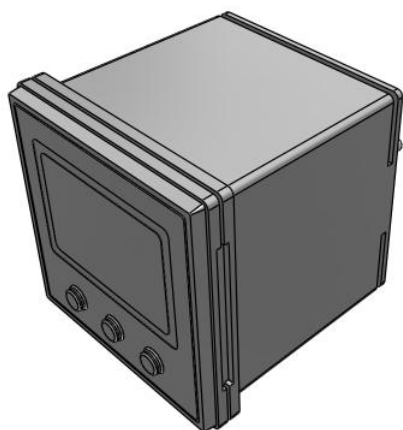




PF3W30, Digital Flow Switch for Water, 3-Colour Display, Remote Monitor Unit PF3W30F-M

Datasheet

General series information

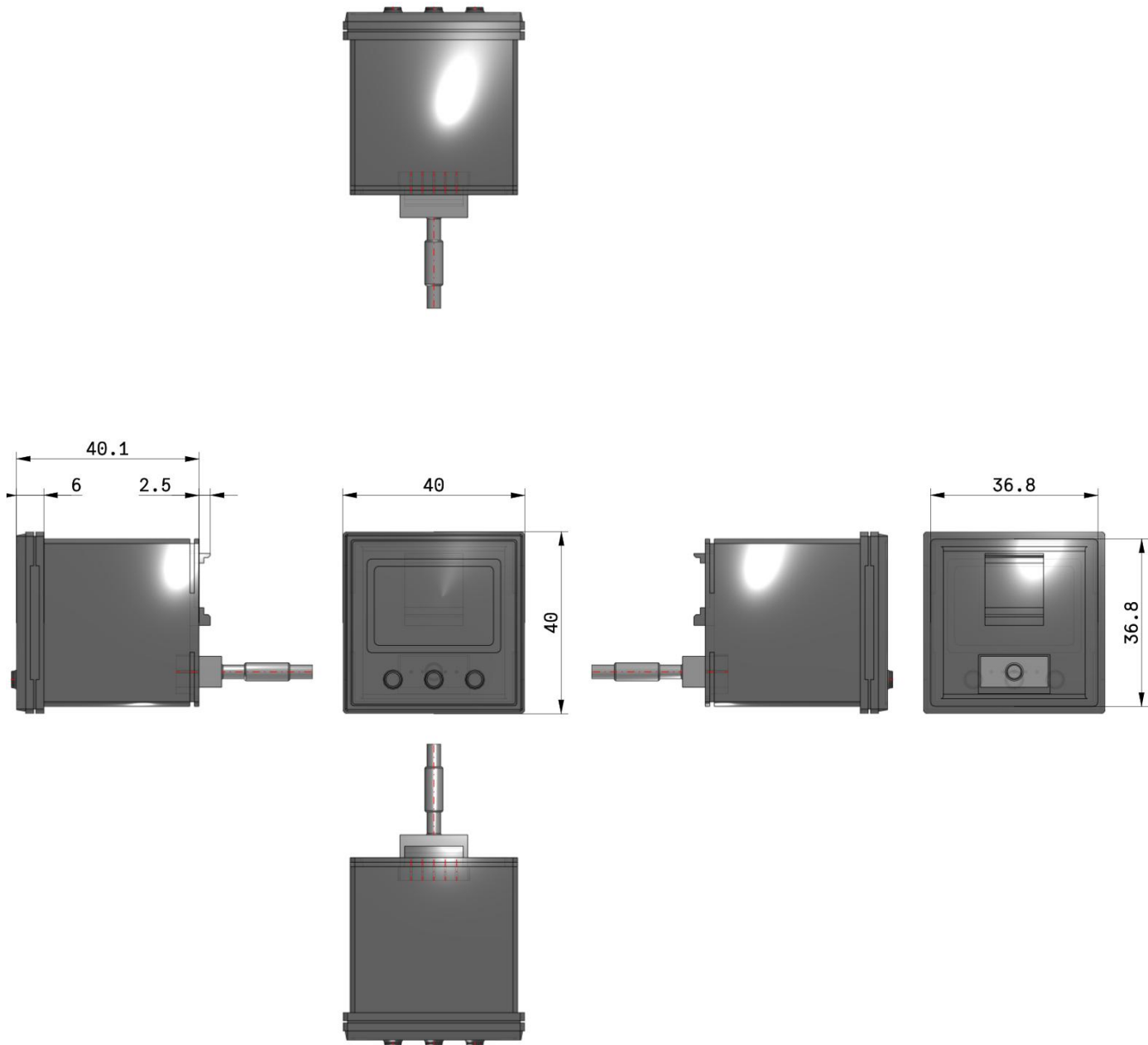
- Display flow range: 0.35 to 112 l/min.
- NPN or PNP open collector output.
- 12 to 24 VDC $\pm 10\%$.
- Operating temperature range: 0 to 50°C (with no freezing and condensation).
- CE marking, UL (CSA), RoHS.

Standard specifications

Output Specification	F (OUT1: PNP - OUT2: Analogue 4 to 20 mA)
Lead Wire	With power supply/output connection lead wire (2m)
Integrated display/Unit specification	M (Flow Rate: l/min, Temperature: °C)
Option 1	None
Option 2	None
Calibration Certificate	None
General power supply	12 - 24 VDC $\pm 10\%$
Response time	1 s / 2 s
Internal voltage drop	1.5 V or less (at load current of 80 mA)
Current consumption	50 mA or less
Operating humidity range	Operation, Storage: 35 to 85 % R.H. (No condensation)
Enclosure	IP40 (Only front face of the panel is IP65 when panel mount adapter and waterproof seal of optional parts are used.)
Repeatability	$\pm 2\%$ F.S.
Maximum load current	80 mA
Analog current output	Output current: 4 to 20 mA Max. load impedance: 300 Ω for 12 VDC, 600 Ω for 24 VDC

Flow display range	0.35 - 4.50 l/min, 1.7 - 18.0 l/min, 3.5 - 45.0 l/min, 7 - 112 l/min, 20 - 280 l/min
Operating temperature range	0 to 50 °C (No freezing or condensation)
Accuracy	Display value: ± 3 % F.S. Analogue output: ± 3 % F.S.
Smallest settable increment	0.01 l/min, 0.1 l/min, 1 l/min, 2 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 M Ω or more (500 VDC measured via megohmmeter) between terminals and housing
Temperature characteristics	± 5 % F.S. (25 °C standard)
Standards	CE, UL
Switch output protection	Short-circuit protection
Conversion of accumulated pulse (Pulse width: 50 ms)	Display value: ± 3 % F.S. Analogue output: ± 3 % F.S.
Display unit	Instantaneous flow: l/min, Accumulated flow: L
Switch output mode Flow rate	Select from Hysteresis, Window comparator, Accumulated output, or Accumulated pulse output modes.
Switch output mode Temperature	Select from Hysteresis mode or Window comparator mode.
Set flow range	0.35 - 4.50 l/min, 1.7 - 18.0 l/min, 3.5 - 45.0 l/min, 7 - 112 l/min, 20 - 280 l/min
Switch output Max. applied voltage	28 VDC
Connection	Power supply output 5P connector, sensor connection 4P connector (e-con)
F414 - Input/Output	Input for copy mode
Weight	0.100 Kg

Dimensions



Additional information

Catalogue	PF3W-Dd_EU.pdf
Declaration of conformity	newDoC_PF3W_TF125-158EN.pdf DoC_PF3Wx_TFG0006.pdf newDoC_PF3W_TF1V119EN-A.pdf
Installation manuals	IM_PFW30_TF2Z083EN-A.pdf
Operation manuals	OM_PF3W3_OMN0012EN-I.pdf