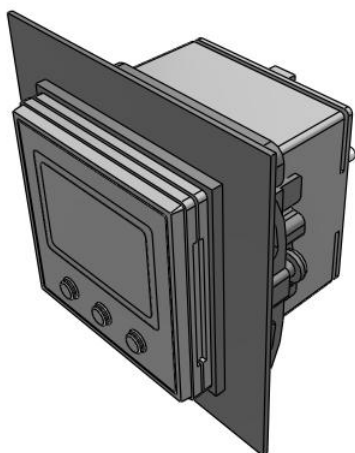




## PF3W30, Digital Flow Switch for Water, 3-Colour Display, Remote Monitor Unit PF3W30E-MTC

### Datasheet

### General series information

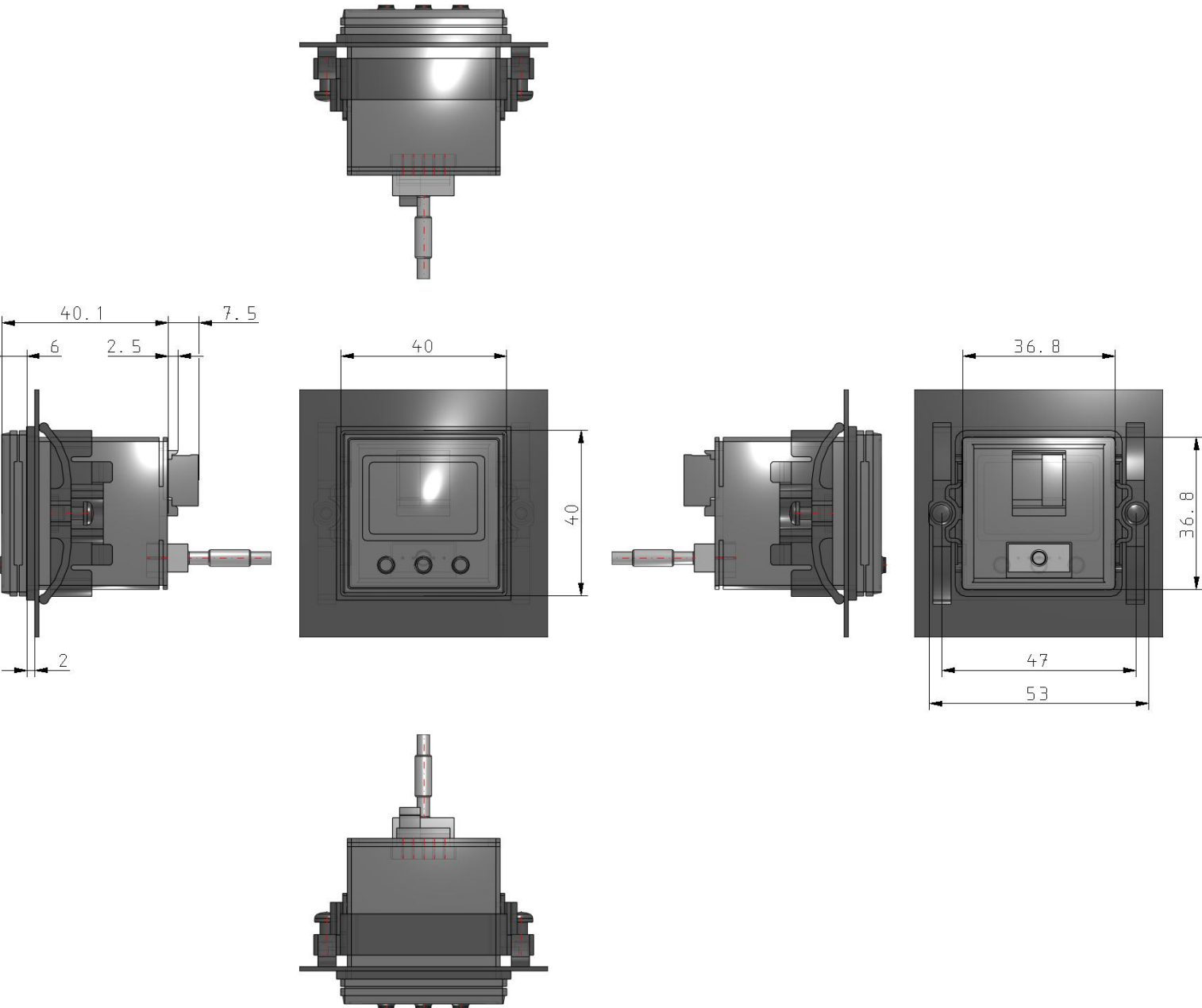
- Display flow range: 0.35 to 112 l/min.
- NPN or PNP open collector output.
- 12 to 24 VDC  $\pm 10\%$ .
- Operating temperature range: 0 to 50°C (with no freezing and condensation).
- CE marking, UL (CSA), RoHS.

### Standard specifications

|                                       |                                                                                                                      |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Output Specification                  | E (OUT1: PNP - OUT2: Analogue 1 to 5 V)                                                                              |
| Lead Wire                             | With power supply/output connection lead wire (2m)                                                                   |
| Integrated display/Unit specification | M (Flow Rate: l/min, Temperature: °C)                                                                                |
| Option 1                              | T (Panel Mount Adapter)                                                                                              |
| Option 2                              | C [Sensor Connector (1 pc.)]                                                                                         |
| 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                                                                                                                |
| 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: $\pm 3$ % F.S. Analogue output: $\pm 3$ % 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)<br>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 $\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing                                                                      |
| Temperature characteristics                          | $\pm 5$ % F.S. (25 °C standard)                                                                                                                             |
| Standards                                            | CE, UL                                                                                                                                                      |
| Switch output protection                             | Short-circuit protection                                                                                                                                    |
| Conversion of accumulated pulse (Pulse width: 50 ms) | Display value: $\pm 3$ % F.S. Analogue output: $\pm 3$ % 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                                               | 0.110 Kg                                                                                                                                                    |

Dimensions



## Additional information

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Catalogue                 | <a href="#">PF3W-Dd_EU.pdf</a>                                                       |
| Declaration of conformity | <a href="#">DoC_PF3Wx_TFG0006.pdf</a><br><a href="#">newDoC_PF3W_TF1V119EN-A.pdf</a> |
| Installation manuals      | <a href="#">IM_PF3W30_TF2Z083EN.pdf</a>                                              |
| Operation manuals         | <a href="#">OM_PF3W3_OMN0012EN-I.pdf</a>                                             |