Flow

# FlowCERT

## Open Channel Flow Meter


The FlowCERT open channel flow meter provides comprehensive flow monitoring with data loggin and control fuctions for a complete range of flumes and weirs.

## Technical Specification:

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|---|---|
| **PHYSICAL:** | |
| **Sensor body dimensions:** | 235 x 184 x 120mm (9.25 x 7.24 x 4.75in) |
| **Sensor body weight:** | Nominal 1kg (2.2lbs) |
| **Enclosure material/description:** | Polycarbonate, flame resistant to UL91 |
| **Cable entry detail:** | 10 cable entry knock outs, 1 x M16, 5 x M20 underside, 4 x 18mm dia (PG11) at rear |
| **Transducer cable extensions:** | 2-core screened |
| **Maximum separation:** | Up to 1000m (3280ft) |
| **ENVIRONMENTAL:** | |
| **Enclosure protection:** | IP65 / NEMA 4X |
| **Max. and min. temperature (electronics):** | -20°C to +50°C (-4°F to +120°F) |
| **APPROVALS:** | |
| **CE approval:** | Listed in the Certificate of Conformity within the manual |
| **Flammable atmosphere approval:** | Safe area: compatible with approved dB Transducers |
| **PERFORMANCE:** | |
| **Accuracy/Repeatability:** | Dependent on application and sensor used. See sensor specification |
| **Resolution:** | Dependent on application and sensor used. See sensor specification |
| **Min. & max. range:** | 0-15m (49ft). Dependent on sensor used |
| **Rate resposne:** | Fully adjustable |
| **Echo processing:** | DATEM (Digital Adaptive Tracking of Echo Movement) |
| **OUTPUTS:** | |
| **Analogue outputs:** | 2x Isolated (floating) output (to 150V) of 4-20mA or 0-20mA into 500Ω (user programmable and adjustable) 1µa resolution |
| **Digital Output:** | Full Duplex RS232 |
| **Volt free contacts, number & rating:** | 5 form “C” (SPDT) rated at 5A at 115V/240Vac |
| **Display:** | 6 digits plus 12 charact text, plus bargraoh with direction indicators, remote communicator identifier, and program/run/test mode indicators |
| **INPUTS:** | |
| **Analogue Inputs:** | Isolated (floating) input to (150V) of 4-20mA or 0-20mA source or sink, open circuit voltage (source) 33V, 22V at 4mA, 14V at 20mA (user programmable and adjustable) 0.1% resolution |
| **Velocity Input:** | Via RS485 digital communications interface |
| **PROGRAMMING:** | |
| **On-board programming:** | By integral keypad |
| **PC programming** | Via RS232 |
| **Programming security:** | Via passcode (user selectable and adjustable) |
| **Programmed data integrity:** | Via non-volatile RAM, plus backup |
| **SUPPLY:** | |
| **Power supply:** | 115Vac +5% / -10% 50/60Hz, 230Vac +5% / -10% 50/60Hz, 20-28Vdc, 10W maximum power (typically 6W) |
| **Fuses:** | 100mA at 230Vac, 200mA at 115Vac |

*Pulsar Process Measurement Ltd. operates a policy of constant development and improvement and reserves the right to amend technical details as necessary.*

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