

FlowCERT

Open Channel Flow Meter

The FlowCERT open channel flow meter provides comprehensive flow monitoring with data logging and control functions for a complete range of flumes and weirs. It is compatible with a range of sensors in order to create a flow metering system to suit your application.



Technical Specification:

PHYSICAL:

Sensor body dimensions:	235 x 184 x 120mm (9.25 x 7.24 x 4.72in)
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 response:	Fully adjustable
Echo processing:	DATM (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 bargraph 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, 22-28Vdc, 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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Pulsar Process
Measurement Ltd.
Malvern, WR14 1JJ, UK
Tel: +44 (0) 1684 891371
Email: info@pulsar-pm.com

Pulsar Process
Measurement Inc.
Niceville, FL 32578, USA
Tel: +1 850 279 4882
Email: info.usa@pulsar-pm.com

www.pulsar-pm.com