FlowCERT

Open Channel Flowmetering System

Pulsar's 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 Specifications:

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/Repeability:	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:	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 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

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