

Flow Pulse®

Flow

Non-invasive Clamp-on Flow Sensor for Pipes

Flow Pulse® is a unique, non-invasive flow sensor that clamps to the outside of a pipe and is simply secured with a screwdriver. Flow Pulse offers you exceptional repeatability at a fraction of the cost of an equivalent magflow meter. It can reliably monitor flow across a variety of pipe materials including rigid plastic, stainless steel, cast iron and even corrugated pipes.



Technical Specification:

PHYSICAL:

Sensor body dimensions:	120 x 65 x 65mm (4.75 x 2.6 x 2.6in)
Sensor body weight:	Nominal 1.5kg (3.3lbs)
Enclosure material/description:	Type 316 stainless steel casting
Cable entry detail:	1 cable entry M20 x 1.5mm gland
Maximum separation:	Up to 500m (1640ft)

ENVIRONMENTAL:

Enclosure protection:	IP68
Max. and min. temperature (electronics):	-20°C to +70°C (-4°F to +158°F)

APPROVALS:

CE approval:	Listed in the Certificate of Conformity within the manual
---------------------	---

PERFORMANCE:

Accuracy/Repeatability:	±5% typical subject to installation and pipe conditions
Resolution:	3mm/sec
Velocity range:	0.3 - 4.0m/s standard version or 0.3 - 10m/s high flow version
Response time:	Fully adjustable (1 second minimum)
Minimum particle size:	>100µ
Minimum particle concentration:	>200ppm
Pipe diameter:	V1 = 30mm to 350mm (1.2 - 14in) or V2 = 30mm to 1250mm (1.2 - 49.2in)
Pipe wall thickness:	Metal or rigid pipe up to 20mm (0.8in) thick
Signal processing:	RSSA (Refracted Spread Spectrum Analysis)

OUTPUTS:

Analogue output:	4-20mA into a 1kΩ load (when supply voltage is 22Vdc or greater) with 20µA resolution and user programmable span.
Digital output:	Full Duplex RS232 to PC Software, Half Duplex RS485 to PC Software, Half Duplex RS485 with Modbus RTU
Volt-free contacts, number & rating:	1 form "C" (SPDT) rated at 1A at 24Vdc

PROGRAMMING:

PC programming:	Via RS232 or RS485 using Flow Pulse PC
Programmed data integrity:	Via non-volatile RAM

SUPPLY:

Power supply:	18 - 28Vdc
Power consumption:	2.4W @ 24V typical, 3W @ 24V maximum

Flow Pulse® is a registered trademark of Pulsar Process Measurement Ltd in the USA.

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

Literature No. FP-D-0717

Copyright © 2017 Pulsar Process Measurement Ltd.

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