

FLOW PULSE

Technical Specifications:

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 mag flow meter. It can reliably monitor flow across a variety of pipe materials including rigid plastic, stainless steel, cast iron, and even corrugated pipes.



PHYSICAL

Sensor Body Dimensions: 120 mm x 65 mm x 65 mm (4.75 in x 2.6 in x 2.6 in)

Weight: Nominal 1.5 kg (3.3 lb)

Enclosure Material/

Type 316 stainless steel casting **Description:**

Cable Entry Detail: 1 cable entry M20 x 1.5 mm (0.06 in) gland

Up to 500 m (1,640 ft) **Maximum Separation:**

ENVIRONMENTAL

IP68 (Optional versions of the sensor can be supplied, fitted with factory potted cable) IP Rating:

Max. & Min. Temperature

-20 °C to +70 °C (-4 °F to +158 °F) (Electronics):

Listed in the Certificate of Conformity within the manual **CE Approval:**

PERFORMANCE

Accuracy/Repeability: ±5% typical subject to installation and pipe conditions

Resolution: 3 mm/s (0.12 in/s)

• 0.3 m/s to 4.0 m/s (0.98 ft/s to 13.12 ft/s) standard version (or) **Velocity Range:**

• 0.3 m/s to 10 m/s (0.98 ft/s to 32.81 ft/s) high flow version

Fully adjustable (1 second minimum) **Response Time:**

>100 µm Minimum Particle Size:

Minimum Particle Concentration:

>200 ppm

• V1: 30 mm to 350 mm (1.2 in to 14 in) (or) **Pipe Diameter:**

• V2: 30 mm to 1250 mm (1.2 in to 49.2 in) (or)

• V3: up to 2,000 mm (78.74 in)

Pipe Wall Thickness: Metal or rigid pipe up to 20 mm (0.8 in) thick

Signal Processing: RSSA (Refracted Spread Spectrum Analysis)

OUTPUTS

4-20mA into a 1 k Ω load (when supply voltage is 22 V DC or greater) with 20 μ A resolution and user **Analog Output:**

programmable span.

Full Duplex RS232 to PC Software, Half Duplex RS485 to PC Software, Half Duplex RS485 with **Digital Output:**

Modbus RTU

Volt Free Contacts, 1 form "C" (SPDT) rated at 1 A at 24 V DC **Number and Rating:**

PROGRAMMING

PC Programming: Via RS232 or RS485 using Flow Pulse PC

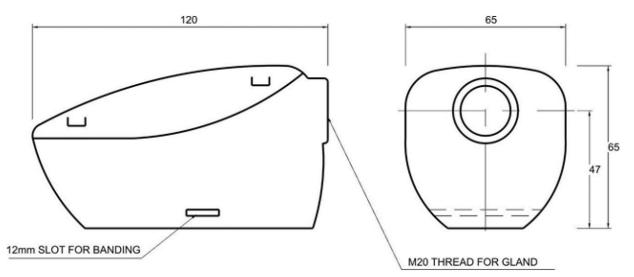
Programmed Data

Integrity: Via non-volatile RAM

SUPPLY

Power Supply: 18-28 V DC

Power Consumption: 2.4 W at 24 V typical, 3 W at 24 V maximum



Flow Pulse Drawing Side and Back

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia allow us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

For more information, please visit our website:

www.pulsarmeasurement.com



INFO@PULSARMEASUREMENT.COM

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11451 Belcher Road South Largo, FL 33773

888-473-9546

Canada

16456 Sixsmith Drive Long Sault, Ont. KOC 1P0 855-300-9151 **United Kingdom**

Cardinal Building, Enigma Commercial Centre Sandy's Road, Malvern WR14 1JJ

+44 (0) 1684 891371