

MICROFLOW-i

Technical Specifications:

MicroFlow-i is a non-contacting low power consumption microwave liquid velocity sensor. It can be installed as an individual sensor or used to provide HART communication protocol or a 4-20mA loop powered signal into a system. It's extremely low power consumption makes it the ideal velocity solution for sewerage network monitoring (CSO) and all remote installations where mains power is unavailable.



PHYSICAL: MOUNTING OPTION SPECIFIC

Sensor Body Dimensions:	90 mm D x 140 mm H (3.54 in x 5.51 in)
Weight:	Nominal 1 kg (2.2 lb)
Sensor Body Material/Description:	Valox 357
Transducer Cable Extensions:	2-core screened
Maximum Separation:	Up to 1,000 m (3,280 ft)
Mounting Connection:	Via 1" BSP back mounted thread or 20 mm (0.79 in) via supplied adaptor. Optional mounting bracket available from Pulsar
Mounting Angle:	45° optimal and mounted at the center line of the channel with a clear uninterrupted view

ENVIRONMENTAL

Enclosure Protection:	IP68
Max. & Min. Temperature (Electronics):	-20 °C to +60 °C (-4 °F to +140 °F)
CE & Radar Approvals:	Listed in the Certificate of Conformity within the manual.
ATEX Approval:	Ex II 1 G D, Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da (Directive 2014/34/EU)

PERFORMANCE

Velocity Range:	0.2 m/s to 6 m/s (0.66 ft/s to 19.7 ft/s)
Operational Range:	Up to 3 m H
Accuracy:	The greater of ±1.5% or 0.05 m/s (0.16 ft/s)
Optimal Installation:	Install at an angle of 45° in line with the flow. More information is provided within the manual — see the 'Locating the MicroFlow-i sensor' section
Max. Channel Width per Sensor:	1.5 m (4.92 ft)
Radar:	K-Band (ISM)
Transmitter Power:	<15 dBm
Beam Width:	20° inclusive
Wake-up Time:	Typically 4 seconds (warm <12 hours from last start-up)

OUTPUTS

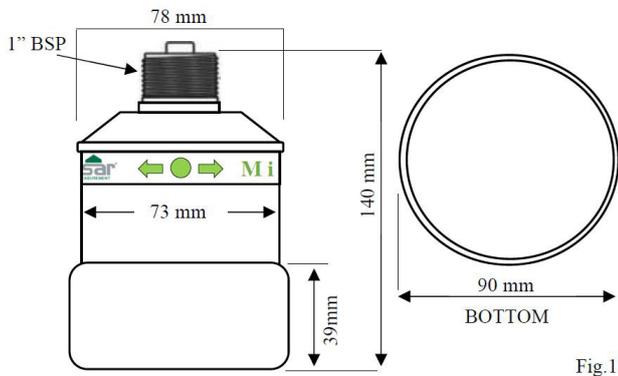
Communication:	HART compatible, 4-20mA loop powered
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PROGRAMMING

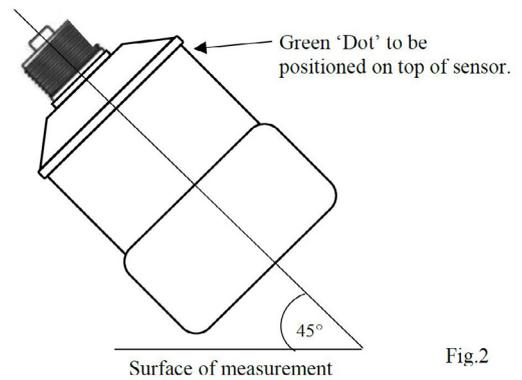
PC Programming:	MicroFlow-i HART PC
Programming Security:	Via passcode
Programmed Data Integrity:	Via non-volatile memory
PC Setup & Monitoring Software:	Compatible with Windows 7/8/10

SUPPLY

Operating Voltage:	10-28 V DC
Power Consumption:	<ul style="list-style-type: none">• Start-up = 20mA• Average current = 60 μA per hour when one velocity measurement is performed every 15 minutes



Microflow-i Drawing



Microflow-i Mounting Drawing

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



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Rev 1.0