

Greyline

DFS 5.1

Technical Specifications:

The DFS 5.1 Doppler Flow Switch is recommended for flow control of liquids containing gas bubbles or solids in closed pipes. The DFS 5.1 strap-on sensor can be installed in minutes without shutting down flow or cutting pipe.



GENERAL SPECIFICATIONS

Transducer:	Model SE4 Single-head 316SS ultrasonic, with 6 m (19.7 ft) shielded cable and stainless steel mounting
Operating Temperature: (Sensor)	-40 °C to 150 °C (-40 °F to 300 °F)
Electronics Enclosure:	NEMA4X (IP66) polycarbonate with clear, shatterproof cover
Accuracy:	±2%, requires solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm. Repeatability: ±0.1%
Power Input:	100-240 V AC 50-60 Hz (see Popular Options), 10 VA max depending on options
Control Relays:	5 A DPDT
Set Points:	ON/OFF adjustment from 0.076 m/s to 3 m/s (0.25 ft/s to 9.8 ft/s)
Operating Temp. (Electronics):	-23 °C to +60 °C (-10 °F to +140 °F)
Pipe Size:	Any pipe ID from 12.7 mm to 4.6 m (0.5 in to 15 ft)
Approximate Shipping Weight:	3.6 kg (8 lb)
Approvals:	CE, cCSAus

STANDARD FEATURES

Set Point:	Field-adjustable with separate ON/OFF set points or select high-flow alarm or low-flow alarm mode
Indication:	Flow rate LED bar graph, relay status LED
Time Delay:	Adjustable 0 to 80 seconds
Electrical Surge Protection:	AC power input and sensor
Transducer:	Mounting bracket clamp and coupling compound included

POPULAR OPTIONS

Transducer Cables:	15.2 m or 30.5 m (50 ft or 100 ft) continuous RG62AU coaxial from sensor, or splice up to 152.4 m (500 ft) with Junction Box
Sensor Mounting Clamp:	stainless steel, adjustable
Power Input:	12-24 V DC (±10%), 3 W Max

APPLICATIONS

Liquids:

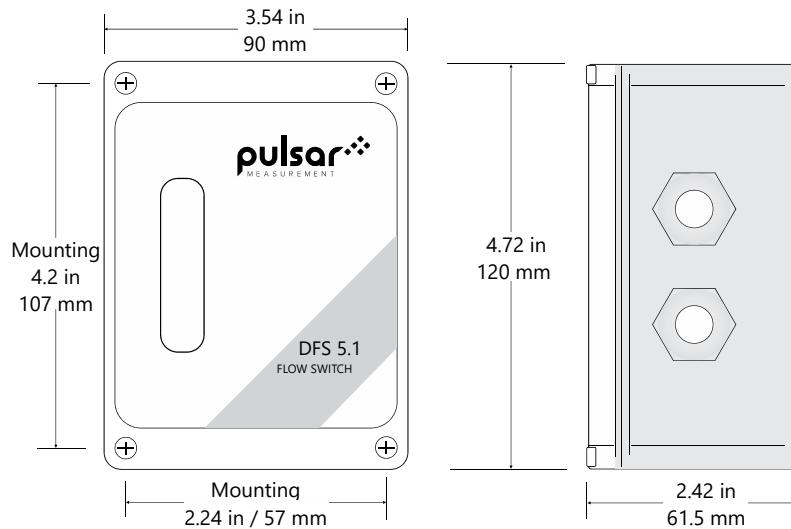
Recommended for liquids containing suspended solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm

Sensor Mounting Location:

On vertical or horizontal pipes, 6-10 pipe diameters from elbows, tees (turbulence increasing devices) >30 pipe diameters from pumps, controlling valves, and pipe discharge

Pipe Materials:

Steel, stainless steel, cast iron, PVC, fiberglass, any contiguous pipe material that conducts sound, including lined pipes with a liner bonded to the pipe wall. Avoid pipes with loose insertion liners and pipe materials that contain air pockets (concrete, wood, etc.)



DFS 5.1 mount drawing front and side

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of global partners 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, allows us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

www.pulsarmeasurement.com



INFO@PULSARMEASUREMENT.COM

Pulsar Measurement is a trading name of Pulsar Process Measurement, Ltd.

*Copyright © 2021 Pulsar Measurement
Registered Address: 1 Chamberlain Square CS, Birmingham B3 3AX
Registered No.: 3345604 England & Wales*

United States
+1 888-473-9546

Asia
+60 102 591 332

Canada
+1 855-300-9151

Oceania
+61 428 692 274

United Kingdom
+44 (0) 1684 891371

pulsarmeasurement.com