

SAFSONIC FIXED DOPPLER FLOWMETER

DFM2

- Single non-invasive clamp-on sensor
- Pipe sizes DN25 to DN3000
- Extended cable with inline transmitter
- Flow total and rate display
- Microprocessor Programmable
- Analogue, Pulse & Relay outputs
- Metric and US units
- Quick to install & Easy to use
- Low cost

Example Applications

- Process control
- Pump protection
- Backup flow meter in emergencies

Example Liquids

- Mining & Dredging Slurries
- Paper & Food Pulp
- Water & Sewerage Sludges



The Safsonic DFM2 is a non-invasive ultrasonic flow meter for the measurement and control of liquids flowing through process and effluent pipelines using the non-intrusive Doppler principle. The flowmeter display indicates flow rate and total volume for a range of liquids containing suspended solids, including aerated water, slurries and sludges. The Safsonic DFM2 requires fluids with a minimum concentration of 100ppm of solids or bubbles having minimum size of 100microns.

Features & Specifications

Velocity Range	0.25 to 10m/s (0.82 to 30.5ft/s)
Liquids	Containing 0.01% solids >100micron
Pipes	25-3000mm (1"-120") Most pipe materials
Accuracy	±2% of Rate for velocities >0.5m/s (1.6ft/s)
Repeatability	±2%
Indication	Rate and Total (password resettable) 2 - Line 16 Character backlit LCD
Units	Rate units: m/s, l/s, l/m, l/hr, m ³ /s, m ³ /m, m ³ /hr, ft/s, ft ³ /s, ft ³ /m, ft ³ /hr, USgpm, USgph, USmgd Total units: l, m ³ , MI, ft ³ , 10 ³ ft ³ , 10 ⁶ ft ³ , USG, 10 ³ USG, 10 ⁶ USG
Power Supply	115/230Vac ±10%, 50/60Hz, (<6VA) 24VDC, ±10%, (<4W)
Programming	4 Key external keypad
Isolated Outputs	Active 4-20mA (<700 load) 24VDC Auxiliary supply (<50mA) OCT Totaliser pulse (24VDC 500mA) Relay Form C (1A 125VAC 2A 30VDC) Flow Rate Alarm, Signal Loss, Totaliser RS485 Modbus RTU (Optional)

Response Time	3 Selectable levels of damping
Electronics enclosure	IP67 (NEMA 6) Polycarbonate Wall Mount 125 x 125 x 75mm HxWxD (5" x 5" x 3")
Transducer	IP68 (NEMA 6P) Aluminium epoxy-faced 21 x 80 x 28mm HxWxD (0.8" x 3" x 1.1")
Temperature limits	Sensor -20 to 90°C (-4 to 194°F) Electronics -10 to 50°C (14 to 122°F)
Inline transmitter enclosure	IP67 (NEMA 6) Aluminium Epoxy coated 75 x 80 x 57mm HxWxD (3" x 3.1" x 2.2")
Cable length with inline transmitter	3m (9ft) Sensor to transmitter and 100m (300ft) from transmitter to DFM2 display
Shipping	36 x 20 x 13cm (15" x 10" x 5.2"), 2kg (5lbs)
Model No.	DFM2-2-1-x (115VAC 50/60Hz) DFM2-2-2-x (230VAC 50/60Hz) DFM2-2-3-x (24VDC)
Model Example	DFM2-2-1-30 115VAC 50/60Hz with 30m sensor cable
Standards	CE Certified
Calibration	Certificate with each flow meter