

# DFM 6.1

## Doppler Ultrasonic Flow Meter



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### Technical Specifications:

Doppler Flow Meters monitor the flow rate of dirty or aerated liquids including: wastewater, sewage, slurries, abrasives, and viscous liquids. Recommended for full pipes and any fluid that contains solids or bubbles.



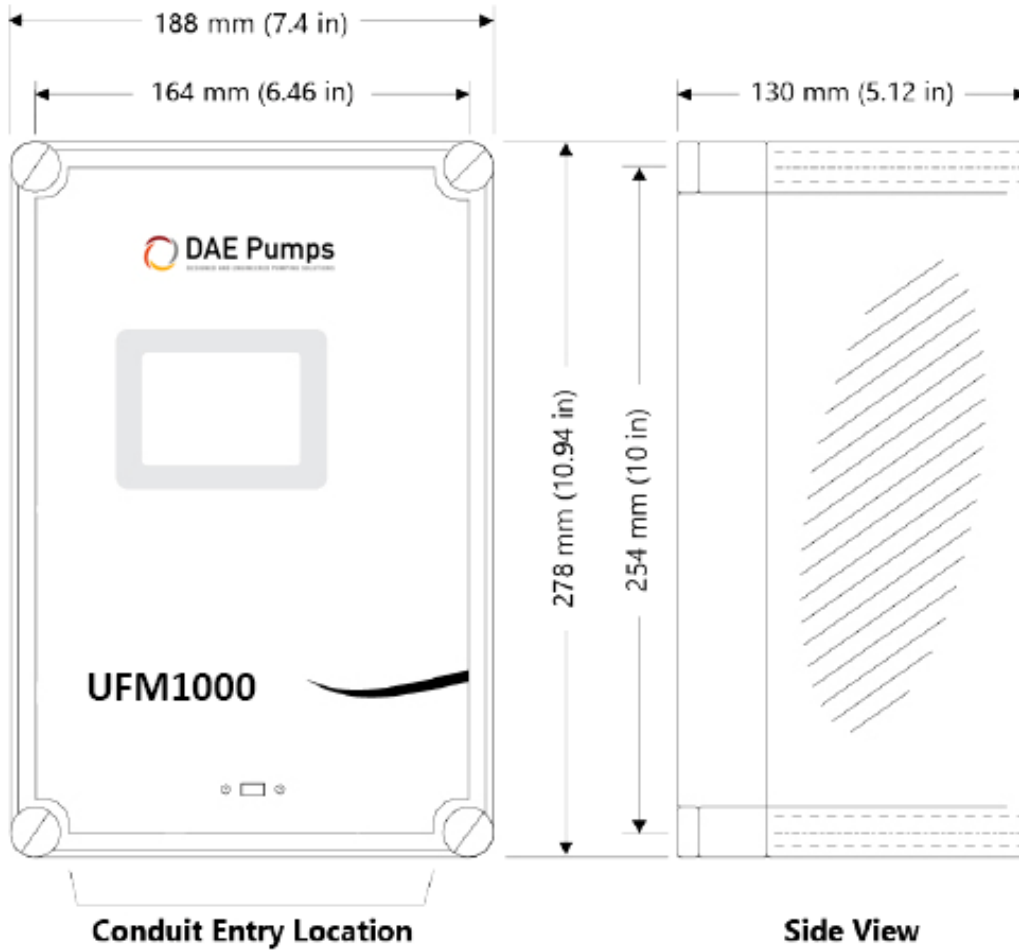
#### GENERAL SPECIFICATIONS

<b>Operating Parameters:</b>	Liquids containing suspended solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm
<b>Programming:</b>	Built-in 5-button keypad with English, French, or Spanish language selection
<b>Electronics Enclosure:</b>	NEMA4X (IP66) polyester with a clear polycarbonate face
<b>Accuracy:</b>	±2% of reading or 30 mm/s (1.2 in/s) whichever is greater. Requires solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm. Repeatability: ±0.1%, Linearity ±0.5%
<b>Display:</b>	White, backlit matrix — displays flow rate, relay states, 16-digit totalizer, operating mode, and calibration menu
<b>Power Input:</b>	<ul style="list-style-type: none"> <li>• 100-240 V AC 5,060 Hz, 10 VA maximum</li> <li>• Optional: 9-32 V DC, 10 W maximum</li> </ul>
<b>Analog Output:</b>	Isolated 4-20mA (1 kΩ load max.) or 0-5 VC (field selectable)
<b>Control Relays:</b>	Qty 2, rated 5 A SPDT, programmable flow alarm, and/or proportional pulse
<b>Data Logger:</b>	Built-in 26 million point logger with USB output and Windows software
<b>Operating Temp. (Electronics):</b>	-23 °C to 60 °C (-10 °F to 140 °F)
<b>Approximate Shipping Weight:</b>	6.3 kg (14 lb)
<b>Approvals:</b>	CE, CSA/UL/EN 61010-1

#### TRANSDUCER SPECIFICATIONS

<b>Transducer:</b>	SE4 single-head stainless steel ultrasonic with 7.6 m (25 ft) shielded cable and designed to withstand accidental submersion to 10 psi.
<b>Pipe Diameter:</b>	Any pipe ID from 12.7 mm to 4.5 m (0.5 in to 15 ft)
<b>Flow Rate Range:</b>	±0.03 m/s to 12.2 m/s (±0.1 ft/s to 40 ft/s)
<b>Pipe Materials:</b>	Steel, stainless steel, cast iron, ductile iron, concrete-lined ductile iron, PVC, HDPE, or 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 walls that contain air.
<b>Operating Temperature:</b>	-40 °C to 150 °C (-40 °F to 300 °F)
<b>Transducer Mounting Kit:</b>	Adjustable stainless steel mounting kit for pipes 12.7 mm (0.5 in) ID or larger.
<b>Hazardous Locations:</b>	Intrinsic Safety Barriers for sensor mounting in Class I, II, III, Div 1, 2, Groups C, D, E, F, G, hazardous locations

DFM 6.1 Front & Side View



SE4 Ultrasonic Doppler Sensor

