DAE Pumps

DESIGNED AND ENGINEERED PUMPING SOLUTIONS

UFM1000

Doppler Ultrasonic Flow Meter

DAEPUMPS.COM

info@daepumps.com

(760) 821-8112

UFM1000

Doppler Ultrasonic Flow Meter

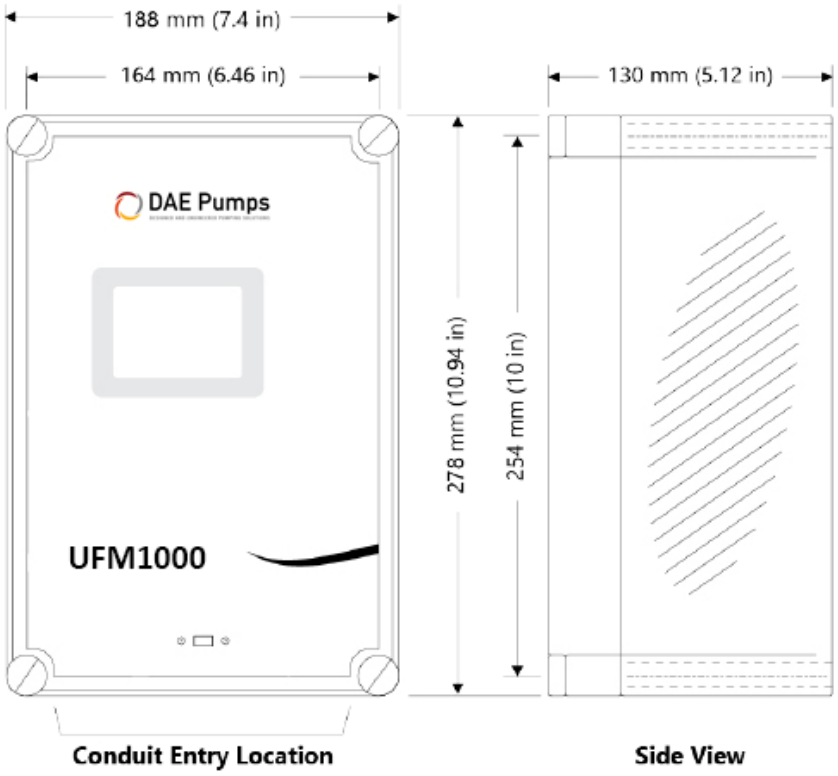
Technical Specifications:

DAE Pumps UFL1000 Doppler Ultrasonic Flow Meters is more than just a flow meter. UFL1000 is a complete system that monitors the flow rate of dirty or aerated liquids including: wastewater, sewage, slurries, abrasives, and viscous liquids. The UFL1000 includes a flow meter, wireless receiver, transducer, and battery pack with charger on a portable dolly.

Recommended for full pipes and any fluid that contains solids or bubbles, the highly accurate UFL1000 powers, monitors, and displays the material flow rate in real-time. The wireless doppler ultrasonic flow meter display mounts securely in the cab of the heavy-duty machinery, providing complete data to the operator.

GENERAL SPECIFICATIONS

Operating Parameters:	Liquids containing suspended solids or bubbles minimum size of 100 microns, minimum concentration 75 ppm
Programming:	Built-in 5-button keypad with English, French, or Spanish language selection
Electronics Enclosure:	NEMA4X (IP66) polyester with a clear polycarbonate face
Accuracy:	±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%
Display:	White, backlit matrix — displays flow rate, relay states, 16-digit totalizer, operating mode, and calibration menu
Power Input:	• 100-240 V AC 5,060 Hz, 10 VA maximum • Optional: 9-32 V DC, 10 W maximum
Analog Output:	Isolated 4-20mA (1 kΩ load max.) or 0-5 VC (field selectable)
Control Relays:	Qty 2, rated 5 A SPDT, programmable flow alarm, and/or proportional pulse
Data Logger:	Built-in 26 million point logger with USB output and Windows software
Operating Temp. (Electronics):	-23 °C to 60 °C (-10 °F to 140 °F)
Approximate Shipping Weight:	80 lb
Approvals:	CE, CSA/UL/EN 61010-1

TRANSDUCER SPECIFICATIONS

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