DATA SHEET

ULTRASONIC FLOW METER

SKU: 525-0800-00

Accurate, non-contact flow monitoring for smarter water management.

The clamp-on ultrasonic flow sensor offers precise water flow measurement with no pipe cutting required. Featuring Modbus RTU, it's ideal for retrofits and clean installations across industrial, agricultural, and commercial water systems—quick to install, easy to integrate.

SPECIFICATIONS	DETAILS
Input Voltage	24VDC
Communication Protocol	Modbus RTU
Flow Velocity Range	0.01 to 12 m/s (≈ 2.9 to 3,500 GPM with 6" pipe ID)
Pipe Compatibility	PVC / Steel
Pipe Size	DN15 - DN6000
Pipe OD (Example)	6.625" (″ Sched 40 PVC)
Pipe ID (Example)	6.031"
Transducer Type	TM-1 (Medium)
Mounting Type	V-mode (same side, bounce path)
Calibration Slope	0.044 (for GPM conversion)
Modbus Address Range	Configurable via menu
Operating Environment	Closed water pipe, stable mount

Performance

- Measures real-time flow in Gallons per Minute (GPM)
- Accuracy relies on pipe dimension setup and sensor grease coupling
- Suitable for PVC or steel pipes, sizes configurable via menu
- Accuracy: ±1% or 0.02m/s velocity, whichever is greater

Efficiency

- No pipe cutting or intrusion required
- Setup time < 30 min with pre-measured sensor spacing

Connectivity

- Modbus RTU
- Integrates with Pearl controller & Cloud dashboard
- Menu-configurable network address, protocol, and units