



Ultrasonic Flow Meter Assembly (UFM-A)



Applications

- Landscape & Turf
- Greenhouse, Nursery & Industrial
- Agriculture
- Golf

“The Tucor Ultrasonic Flow Meter Assembly (“UFM-A”) is a flow meter for the modern age of irrigation, with a design optimized for retrofit. Capable of measuring ultra-low flow rates, the UFM-A allows you to accurately use your Smart Irrigation controller to its designed specifications and “Learned Flow” capabilities. The UFM-A’s Victaulic-style grooved couplings make installation as simple as bolting the meter into place. The UFM-A is ideal for a site that is required to record consumptive water use, has high water costs, is looking to prevent wasting of water, utilizes drip irrigation, or is frustrated with winterizing their traditional flow sensor.

Tucor’s UFM-A provides

- Unparalleled leak detection down to 0.1 fps (0.03 m/s)
- Equipped with Victaulic-style, grooved couplings for easy installation
- Measurement levels as low as 0.22 GPM, ~5x lower than most competitors
- No moving parts = no need for winterizing the flow meter

The UFM-A is part of the UFMV-Assembly line of advanced flow management products, connecting today’s smart irrigation controllers with the industry’s most accurate flow meters (ultrasonic) and most reliable master valves for limited spaces . . . **all without the 10-in-5-out pipe diameter rule!”**

| PIPE SIZE | OPERATING RANGE (MIN.) | OPERATING RANGE (MAX.) |
|-----------|--|--|
| 1 in | 0.22 GPM (0.83 L/min) 0.1 ft./sec | 33 GPM (124.92 L/min) 15 ft./sec |
| 1.5 in | 0.55 GPM (2.08 L/min) 0.1 ft./sec | 82 GPM (310.41 L/min) 15 ft./sec |
| 2 in | 0.92 GPM (0.48 L/min) 0.1 ft./sec | 138 GPM (0.48 L/min) 0.1 ft./sec |
| 3 in | 2.06 GPM (7.80 L/min) 0.1 ft./sec | 309 GPM (1169.70 L/min) 15 ft./sec |
| 4 in | 3.58 GPM (13.55 L/min) 0.1 ft./sec | 537 GPM (2032.78 L/min) 15 ft./sec |





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SPECIFICATIONS

| | |
|---|---|
| Operating | 32° F to 140° F (0° C TO 60° C) |
| Storage | -20° F to + 160° F (-29° C to +71° C) |
| Flow Range | 0.1 TO 15 fps (0.03 to 4.5 m/s) |
| Accuracy | Typically +2% of reading |
| Operating Pressure | 150 psi @ 73° F (10 bar @ 23° C), 100 psi @ 140° F (7 bar @ 60° C) |
| Transducer Excitation | Supply Voltage: 7.5V (dc) min. to 36V (dc) max, Quiescent Current: 200 µA (typical) |
| Output Frequency | 0 to 100 Hz |
| Output Pulse Width | 4 ms |
| Electrical Cable for insert Electronics | 36 inches (914.4 mm) of 18 AWG, solid copper, "Direct Burial" (UL 493 & 83) |
| LED light indicators | Green for power and Amber for pulse |
| Two wire connector | For power and pulse |

COUPLINGS

| | |
|--------------------------|----------------------------|
| Materials | PAG/EPDM |
| Maximum Working Pressure | 510 psi, non-shock at 68°F |
| Working Temperature | 14-203°F |

SCHEDULE 80 FITTINGS

| | |
|--------------------------|----------------------------|
| Materials | Schedule 80 PVC |
| Maximum Working Pressure | 150 psi, non-shock at 73°F |

HOW TO ORDER

ULTRASONIC FLOW METER ASSEMBLY

| | |
|-----------|--|
| UFM-A-1.5 | 1.5" Ultrasonic Flow Meter with quick-connect, Victaulic-style couplings |
| UFM-A-2 | 2" Ultrasonic Flow Meter with quick-connect, Victaulic-style couplings |
| UFM-A-3 | 3" Ultrasonic Flow Meter with quick-connect, Victaulic-style couplings |
| UFM-A-4 | 4" Ultrasonic Flow Meter with quick-connect, Victaulic-style couplings |

