



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

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

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

