

Flow Meters

Vortex and Ultrasonic Flow Meters for Fertigation Systems

MODELS FLOW-VORTEX / FLOW-ULTRA / FLOW-ULTRA-HI · NURAVINE FERTIGATION PLATFORM

Nuravine flow meters measure water flow in GPM and connect directly to the Aurora II and Flux sensor inputs. They meter fills and batch volumes, verify inline dosing against live flow, and drive Fill and Dose rules that dose against the actual water volume added.

All three meters are industrial IFM units with 316L stainless wetted parts, IP65/IP67 protection, and built-in medium temperature measurement. They are powered directly from the controller's sensor terminals; no separate power supply or outlet is required. Pick by line size and flow range.

- Vortex: 1.3-26.4 GPM, G 3/4
 - High-flow ultrasonic: 1.32-264 GPM, 2 in NPT
 - 316L stainless wetted parts, IP65/IP67
- Ultrasonic: 0.26-63.4 GPM, 1 in NPT
 - Powered by the controller, no outlet needed
 - Flow and medium temperature in one device



VORTEX FLOW METER (IFM SV7204)	
Measuring range	1.3-26.4 GPM (5-100 L/min)
Process connection	G 3/4 internal thread (DN20)
Outputs	2x 4-20 mA analog: flow and medium temperature
Pressure rating	12 bar / 174 psi (up to 40 C)
Medium temperature	-10 to 90 C (14-194 F)
Accuracy	+/-2% of range (water); repeatability +/-0.5%
Temperature accuracy	+/-1 K
Current draw	Under 30 mA at 24V DC (under 1 W)
Weight	484 g (1.1 lb)

ULTRASONIC FLOW METER (IFM SU8631)	
Measuring range	0.26-63.4 GPM (1-240 L/min)
Process connection	1 in NPT external thread (DN25)
Pressure rating	100 bar / 10 MPa
Medium temperature	-20 to 100 C (-4 to 212 F)
Accuracy	+/- (1.0% of reading + 0.5% of range), water
Repeatability	+/-0.2% of range
Current draw	Under 75 mA at 24V DC (under 2 W)
Weight	623 g (1.4 lb)

HIGH-FLOW ULTRASONIC (IFM SU2621)	
Measuring range	1.32-264.18 GPM (5-1,000 L/min)
Process connection	2 in NPT external thread (DN50)
Pressure rating	100 bar / 10 MPa
Medium temperature	-20 to 100 C (-4 to 212 F)
Accuracy	+/- (1.0% of reading + 0.5% of range), water
Repeatability	+/-0.2% of range
Current draw	Under 75 mA at 24V DC (under 2 W)
Weight	1,385 g (3.1 lb)

SHARED SPECIFICATIONS	
Wetted parts	Stainless steel (316L / 1.4404) measuring pipe
Ingress protection	IP65 / IP67
Protection class	III (SELV/PELV, low voltage only)
Circuit protection	Reverse polarity and short-circuit protected
Display	On-device digital display, rotatable
Signal to controller	4-20 mA analog into the Aurora II / Flux sensor inputs

INTEGRATION	
Controllers	Aurora II and Flux 4-20 mA sensor inputs
Power	Supplied from the controller's +24V sensor terminals
Readings	Live GPM on the controller and Nuravine Cloud
Used by rules	Fill and Dose, Inline Dose, sensor-triggered valve rules
Totals	Volume totalization for fills and batch metering

IN THE BOX

- 1x Flow meter (model per order)

ORDERING INFORMATION	
MODEL / SKU	DESCRIPTION
FLOW-VORTEX	Vortex flow meter, G 3/4, 1.3-26.4 GPM (IFM SV7204)
FLOW-ULTRA	Ultrasonic flow meter, 1 in NPT, 0.26-63.4 GPM (IFM SU8631)
FLOW-ULTRA-HI	High-flow ultrasonic meter, 2 in NPT, 1.32-264 GPM (IFM SU2621)
AURORA-II	Aurora II all-in-one fertigation controller
FLUX	Flux irrigation and valve automation controller

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