

DESCRIPTION

ONICON inline turbine flow meters are suitable for measuring electrically conductive water-based liquids. The F-1300 model provides a high-resolution frequency output for connection to an ONICON display or Btu meter.

CALIBRATION

Every ONICON flow meter is wet calibrated in our flow laboratory against primary volumetric standards that are directly traceable to N.I.S.T. A certificate of calibration accompanies every meter.

FEATURES

- **Unmatched Price vs. Performance -** Custom calibrated, highly accurate instrumentation at very competitive prices.
- **Excellent Long-term Reliability -** Patented electronic sensing is resistant to scale and particulate matter. Low mass turbines with engineered jewel bearing systems provide a mechanical system that virtually does not wear.
- **Industry Leading Two-year "No-fault" Warranty -**Reduces start-up costs with extended coverage to include accidental installation damage (miswiring, etc.) Certain exclusions apply. See our complete warranty statement for details.

APPLICATIONS

0227-2

- Closed loop chilled water, hot water, condenser water & water/glycol/brine solutions for HVAC
- Process water & water mixtures

• INLINE FLOW METER • MODEL F-1300 TURBINE FREQUENCY OUTPUT

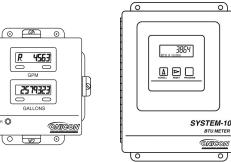


GENERAL SPECIFICATIONS

ACCURACY

± 0.5% of reading at calibrated velocity $\pm 2\%$ of reading from 0.8 to 38 GPM (50:1 range) SENSING METHOD Electronic impedance sensing (non-magnetic and non-photoelectric) **PROCESS CONNECTIONS** Threaded or sweat union fittings - 3/4" or 1" SUPPLY VOLTAGE 24 ± 4 V AC/DC at 80 mA LIQUID TEMPERATURE RANGE Standard: 180° F continuous, 200° F peak High Temp: 280° F continuous, 300° F peak AMBIENT TEMPERATURE RANGE -5° to 160° F (-20° to 70° C) **OPERATING PRESSURE** 400 PSI maximum PRESSURE DROP 3 PSI at maximum flow rate **OUTPUT SIGNALS PROVIDED** Frequency Output 0-15 V peak pulse MATERIAL Brass housing and stem Sapphire bearings and tungsten carbide shaft **ELECTRONICS ENCLOSURE** Weathertight aluminum enclosure **ELECTRICAL CONNECTIONS** 3-wire for frequency output Standard: 10' of cable with 1/2" NPT conduit connection Optional: Indoor DIN connector with 10' of plenum rated cable

ALSO AVAILABLE



Display Modules

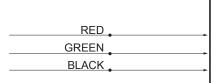


Btu Measurement Systems

F-1300 WIRING INFORMATION

WIRE COLOR	DESCRIPTION	NOTES
RED	(+) 24 V AC/DC supply voltage, 30 mA	Connect to power supply positive
BLACK	(-) Common ground (Common with pipe round)	Connect to power supply negative
GREEN	(+) Frequency output signal: 0-15 V peak pulse	Signal for ONICON display or Btu meter

F-1300 WIRING DIAGRAM

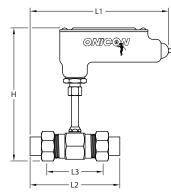


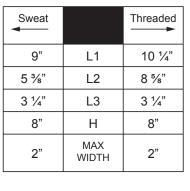
ONICON Display or Btu Meter • +24 V FREQUENCY INPUT GROUND

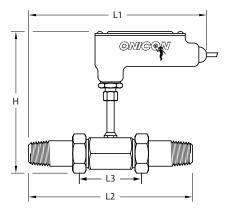
NOTE:

Black wire is common with the pipe ground (typically earth ground).

INLINE FLOW METER DIMENSIONS

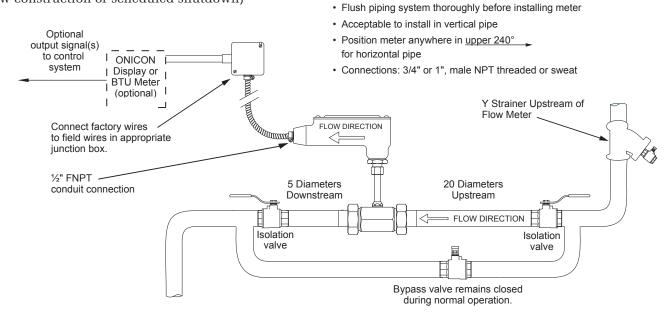






TYPICAL METER INSTALLATION

(New construction or scheduled shutdown)



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