

• INLINE FLOW METER • MODEL F-1330 TURBINE SCALED OUTPUT



# **GENERAL SPECIFICATIONS**

#### **ACCURACY**

 $\pm$  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 ¾" 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**

Scaled Contact Output

Isolated solid state dry contact

Contact rating: 100 mA, 50 V

Contact duration:

50 ms or 300 ms, jumper selectable

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**

4-wire minimum for scaled switch output

Standard: 10' of cable with 1/2" NPT

conduit connection

Optional: Indoor DIN connector with 10'

of plenum rated cable

#### **DESCRIPTION**

ONICON inline turbine flow meters are suitable for measuring electrically conductive water-based liquids. The F-1330 model provides a scaled binary (digital) dry contact output signal where each pulse equals a specific unit volume, an ideal choice for totalized flow applications.

# **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.

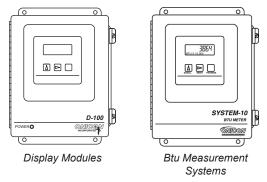
### Industry Leading Two-year "No-fault" Warranty -

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**

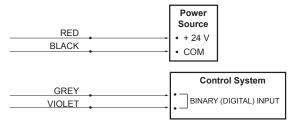
- Closed loop chilled water, hot water, condenser water & water/glycol/brine solutions for HVAC
- Process water & water mixtures

### **ALSO AVAILABLE**



# F-1330 WIRING DIAGRAM

Flow meter into control system (no display or Btu meter)



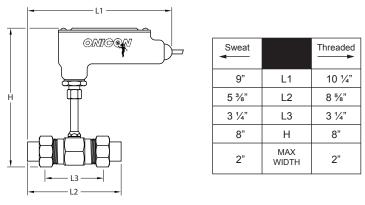
### F-1330 WIRING INFORMATION

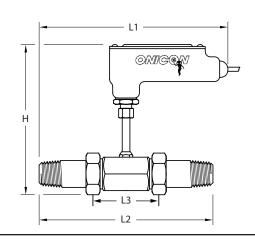
WIRE COLOR	DESCRIPTION	NOTES
RED	(+) 24 V AC/DC supply voltage, 30 mA	Connect to power supply positive.
BLACK	(-) Common ground (Common with pipe ground)	Connect to power supply negative.
GREEN	(+) Frequency output signal: 0-15 V peak pulse	Required when meter is connected to local display or Btu meter.
GREY	Dry contact switch output	Scaled to provide one pulse per desired unit volume.
VIOLET		

#### NOTE:

- Black wire is common with the pipe ground (typically earth ground).
- Frequency output required for ONICON display module or Btu meter, refer to wiring diagram for peripheral device.

# **INLINE FLOW METER DIMENSIONS**





# TYPICAL METER INSTALLATION

