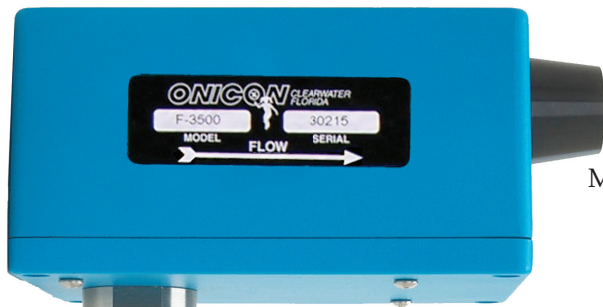


• F-3500 SERIES •
INSERTION ELECTROMAGNETIC
FLOW METER



Made in the USA

DESCRIPTION

ONICON Incorporated's F-3500 series insertion electromagnetic flow meters are suitable for measuring electrically conductive liquids in a wide variety of applications. Each F-3500 provides a single analog output for flow rate, a high resolution frequency output to drive peripheral devices, a scalable pulse output for totalization and an empty pipe alarm signal. Optional remote displays and Btu measurement systems are also available.

FEATURES

Exceptional Performance & Value - F-3500 series insertion style electromagnetic flow meters provide a degree of accuracy and reliability normally only found in expensive full bore devices. By combining this level of performance with the cost effective nature of the insertion style design, ONICON has produced a product of exceptional value.

Excellent Long Term Reliability - ONICON insertion style electromagnetic flow meters employ a low maintenance, non-moving parts technology to sense flow. State-of-the-art electronics and patented design features help maintain accuracy over time.

Proprietary Design Advantage - F-3500 insertion electromagnetic flow meters utilize patented design features that significantly enhance performance. The dual-electrode design and continuous auto-zero function combine to improve accuracy and sensitivity — particularly at low flow rates.

Simplified Hot Tap Insertion Design - Standard on every insertion flow meter, this feature allows for insertion and removal by hand, without a system shutdown.

APPLICATIONS

- Chilled water, hot water, condenser water & water/glycol solutions for HVAC
- Process water & water mixtures
- Domestic/municipal water

CALIBRATION

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

GENERAL SPECIFICATIONS

ACCURACY

- ± 1.0% of reading from 2 to 20 ft/sec
- ± 0.02 ft/sec below 2 ft/sec

FLOW RANGE

0.25 ft/s to 20 ft/s (80:1 turndown)

SENSING METHOD

Electromagnetic sensing (no moving parts)

CONDUCTIVITY RANGE

20 to 60,000 µSiemens/cm

PIPE SIZE RANGE

3" through 72" nominal diameter

INPUT POWER

- 20 – 28 VDC, 250mA @ 24 VDC
- 20 – 28 VAC 60 Hz, 6 VA

LIQUID TEMPERATURE RANGE

15° to 250° F

AMBIENT TEMPERATURE RANGE

-5° to 150° F

OPERATING PRESSURE

400 PSI maximum

OUTPUT SIGNALS PROVIDED

Analog Output (Isolated)

Selectable: 4-20mA, 0-10V or 0-5V

Frequency Output

0 – 15 Volt peak pulse, 0 – 500Hz

Scalable Pulse Output

Isolated solid state dry contact

Contact rating: 50VDC, 100mA maximum

Pulse Duration: 0.5, 1, 2 or 6 seconds

(continued on back)



ONICON's F-3500 Series Insertion Electromagnetic Flow Meter combined with the System-10 BTU Meter form an energy measurement system with unsurpassed accuracy and reliability.

This product is covered by one or more of the following patents: 6,431,011 and 6,463,807.

1500 North Belcher Road, Clearwater, FL 33765 • Tel (727) 447-6140 • Fax (727) 442-5699

www.onicon.com • sales@onicon.com

