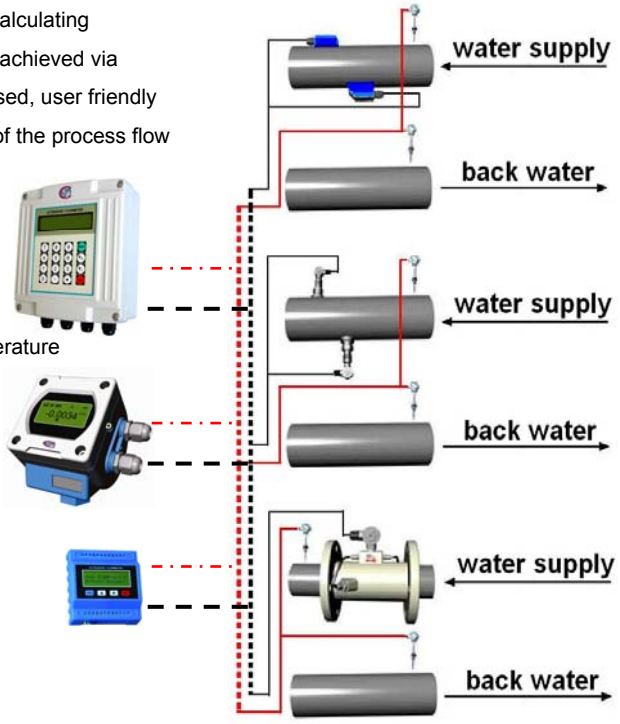
ALSONIC-EG

Ultrasonic Thermal Energy Meter
Model Alsonic-EG

GENERAL

Alsonic-Energy meters feature transit-time ultrasonic flow measurement with two PT 100 temperature sensors or customer-supplied RTD sensors for calculating total and instantanious energy consumption. Flow measurement may be achieved via clamp-on, spool piece, or insertion-type sensors. Our microprocessor based, user friendly field programmable flow measurement technique creates no interruption of the process flow and has low instalation costs.



FEATURES

- Measures energy consumption rate and total
- Compact or wall mount version
- Proven ultrasonic technology for flow measurement and PT 100 for temperature
- Clamp-on, spool piece or insertion mounting for flow measurement
- Wide range velocities - 0.3 ~ ±105 feet/sec (0.1 ~ ±32 m/s)
- Transducers for pipe sizes ranging from ½" ~ 240" (15 ~ 6000 mm)
- Excellent accuracy - ±0.5% of reading.
- RS485 and Modbus communication protocols available
- 4-20 mA and pulse outputs with aqvailable relays and alarms
- Data logger function - includes time & date, totalizer, diagnostics
- Response time less than 1 second
- NIST traceable calibration certificate

SPECIFICATION

- Flow measurement : Transit time ultrasonic method
- Transducer type : clamp-on, spool piece, or insertion
- Temperature measure : Platinum 100 RTDs
- Pipe Size : ½"-240" (25-6000mm)
- Pipe Material : Cast Iron, Stainless Steel, Ductle Iron Copper, PVC, Aluminum, Asbestos Fiberglass… etc.
- Liner Material : Tar Epoxy, Rubber, Mortar, Polypropylene, Polystryal, Ploystryene, Polyester, Ebonite, Polyethylene, Teflon… etc.
- Flow Velocity : 0.3 ~ ±105 feet/sec (0.1 ~ ±32 m/s)
- Resolution : 0.0003 feet/sec (0.0001 m/s)
- Liquid temperature : -40 ~ 312 °F (-40 ~ 155 °C)
- Suspended solids : <2%; particle size smaller than 75μm
- Engineering units : Metric or English (US)
- Accuracy : ± 1%-± 2% of reading from 1.5 - 100 feet/sec ± 0.5% of reading (online calibration)
- Repeatability : ±0.5% of reading
- Digital communication : Isolated RS 485, MODBUS, GPRS/GSM
- Measurement period : 0 to 99s
- Ambient Temperature : -4 ~ 122 °F (-20 ~ 50 °C)
- Display : LCD with backlight, 2 x 20 characters
- Keypad : 4 x 4 tactile-feedback membrane keypad Displays energy rate, total consumption, temperature, instantaneous flow rate accumulated flow rate, velocity, time
- Mounting : wall mounting or integral
- Max. Cable Length : 500' (150 m)
- Power : ≤ 2W
- Power Supply (AC) : 90 ~ 260V_{AC}, 50/60 Hz
- Power Supply (DC) : 8~36 VDC
- Data Storage : Totalized data up 64 days Time and corresponding flow rates of the last 64 times power on/off events
- : Manual or automatic flow loss consumption
- Signal outputs : 4-20 mA , Impedance 0-1kΩ, pulse, relays Isolated OCT for alarms (on/off with buzzer)
- Signal inputs Two RTD channels, and additional inputs
- Response Time : < 1 second
- Enclosure : NEMA 4X (IP65)
- Sensor : IP68(Submersible)
- Weight : 4 lb (2 kg) wall mount, 2 lb (1 kg) integral

SmartMeasurement
10437 Innovation Drive, Suite 315, Milwaukee, WI 53226, USA
TEL : +1-866-404-5415 FAX : +1-414 -433-1606

URL : http://www.smartmeasurement.com
E-mail :sonic@smartmeasurement.com