

ALSONIC-EG

Ultrasonic Flowmeter

ALSONIC SERIES

GENERAL

THE SMARTMEASURERMENT ALSONICEG is a fixed-mount, transit-time ultrasonic flow and BTU meter, with clamp-on transducers for non-invasive liquid flow measurement. Our microprocessor based, user friendly, field programmable flow and energy measurement technique creates no interruption of the process flow and provides for all installation costs.

FEATURES

- 4 line LCD display with flowrate, totalizer & diagnostics
- Stores up 64 Day/month's totalizer daily values
- Batch control function
- Temperatures of up to (230°F) 110°C
- Transducers for pipe size from 1" ~ 48" (25 ~ 1200mm)
- Available with clamp on or insertion
- High accuracy of ±1% of reading
- Transducers include magnetic insert, for installation on metal pipe without mounting belt
- Data logger function; includes date, totalizer, signal condition & diagnostic code status
- Response time of less than 1 second

SPECIFICATIONS

Measuring Principle: Transit time ultrasonic

SC1: 1" ~ 31" (25mm ~ 800 mm) • Pipe sizes:

SC2: 20" ~ 48" (500 mm ~ 1200 mm)

 Pipe Material: Cast Iron, Stainless Steel, Ductile Iron,

Copper, PVC, Aluminum,

Asbestos, Fiberglass, etc.

Million Gallon, Cubic Feet, US

Display: 4 line LCD with backlight0 **Flowrate** 5 digits with decimal point

Totalizer 8 digits, forward, reverse & net values

Barrels, Imperial Barrels, Oil Barrel

Time Units second, minute, hour, day

Other Velocity, Date, time, signal condition Std - \pm 1% of reading (0.3 ~ 5 m/s) Accuracy:

± 5% of reading (0.1 ~ 10m/s)

 Repeatability: ±1% of reading • Communication: RS485/Modbus

Engineering Units

Keypad: 16 key with tactile action Response Time: Less than 1 second

Resolution: 0.0001 m/s

Flow Velocity:

-4 ~ 140°F (-20 ~ +60°C) Ambient Temperature:

Mounting: Wall mounting, panel, local or DIN Rail

 Max. Cable Length: 330' (100m) Power Consumption: Less than 2W $Std - 24V_{DC}$ Power Supply:

Opt - 90 ~ 245V_{AC}

1 ~ 33ft/s (0.3 ~ 10m/s)

• Data Storage: Operation parameters, totalization,

date are stored by EEPROM

4-20 mA, 0-20 mA Power output:

1-9999 Hz Output:

• Data Logger: 16 GSD card, 64 data points including

> flowrate, totalizer time, data High/Low with buzzer as option

Alarm: Converter - IP65; Sensor - IP68 Protection:





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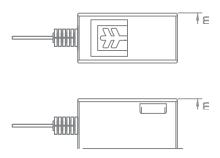
STANDARD TRANSDUCER

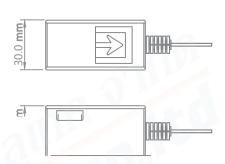
Fluid Temperature: $-22 \sim 167$ °F ($-30 \sim +75$ °C)

-22 ~ 230°F (-30 ~ +110°C)

Accuracy: 1%







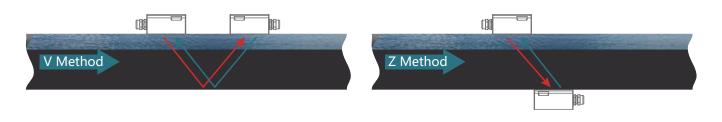
Model	SC1 (Medium Size)	SC2 (Large Size)
Pipe Size	1" ~ 32" (DN25 ~ 800mm)	20" ~ 48" (DN500 ~ 1200mm)

PRODUCT ACESSORIES



■ MEASURING PRINCIPLE

The ultrasonic signal from the transducer is transmitted and received through the moving liquid. The difference between the upstream and downstream transit time, is directly proportional to Fluid Velocity, used to calculate flow rate and velocity.



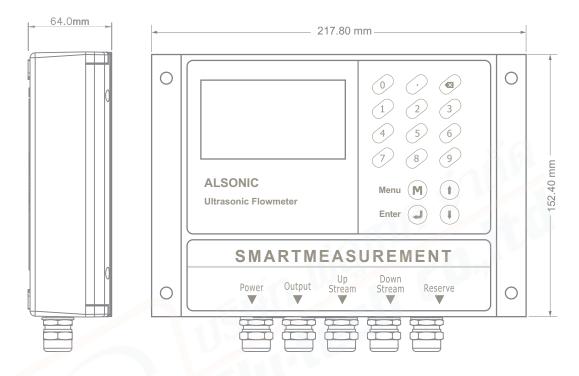


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DIMENSION



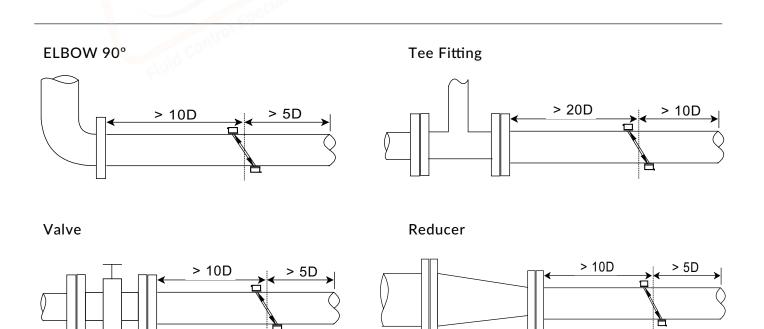
Size: 8.58" x 5.98" x 2.52" (218*152*64mm) Outputs: Isolated RS232/RS485 output

Setting Flow unit, zero, clear total flow, K- factor 1 channel OCT, 1 channel 4 ~ 20mA output

Parameters: Passwords, data linearity factor 1 relay output, SD card data

Inputs: 2 channel 4 ~ 20 mA analog input (heat/energy) logger (optional)

Three-wire PT100 resistor input (heat/energy) Protection: IP65





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TYPE OF FLUID FULL-SCALE FLOW RATE Please provide the name of your fluid, including operating density and viscosity

Please provide the max, min and nominal flow rates.

LINE SIZE Please provide the line size

PRESSURE & TEMPERATURE We will calibrate your flow meter as close to your operating conditions as possible

ALSONIC-EG SERIES								
EXAMPLE: ALSONIC-EG-SC1-C1-NN								
ALSONIC	**	**	**	*	*	DESCRIPTION		
Standard wall mount energy meter with display, 4-20mA, RS485						d		
Middle clamp sensor (-30~+75°C), 25~800 mm SC1								
Large clamp sensor (-30~+75°C), 500~1200 mm SC2				Transducers				
High Temperature clamp sensor (-30~+110°C), 25~500 mm HC1								
Standard insertion sensor (-30~+110°C), 80~1200 mm			Hallsducers					
304SS inline sensor (-30~+110°C) with pipe size **								
Other transducer **								
No Cables NC								
5m x 2 Cables			C1		Signal Cable			
**m cables up to +75 deg C				Length				
**m cables up to +110 deg C								
Standard power supply : 10~36Vpc/1A.						Power Supply		
Option power supply: 90~245V _{AC} , 50/60Hz						1 OWC1 Supply		
None option					NN			
Worm gear steel mounting belt - please offer line size < DN500								
thickness gauge					TT			
Clamped on PT1000 with 5m cable, a pair						Options		
Clamped on PT1000 with **m cable, a pair								
Data logger for wall mount								
Ex proof chassis for wall mount transmitter								

