



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

• Display:

• Measuring Principle: Transit time ultrasonic

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

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

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

> Copper, PVC, Aluminum, Asbestos, Fiberglass, etc.

4 line LCD with backlight0

Flowrate 5 digits with decimal point

Totalizer 8 digits, forward, reverse & net values

Million Gallon, Cubic Feet, US **Engineering Units**

Barrels, Imperial Barrels, Oil Barrel

Time Units second, minute, hour, day

Other Velocity, Date, time, signal condition

Accuracy: Std - \pm 1% of reading (0.3 ~ 5 m/s)

 \pm 5% of reading (0.1 ~ 10m/s)

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

Keypad: 16 key with tactile action • Response Time: Less than 1 second Flow Velocity: 1 ~ 33ft/s (0.3 ~ 10m/s)

Resolution: 0.0001m/s

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

Mounting: Wall mounting, panel, local or DIN Rail

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

Opt - 90 ~ 245V_{AC}

Data Storage: Operation parameters, totalization,

date are stored by EEPROM

• Power output: 4-20 mA, 0-20 mA

Output: 1-9999 Hz

 Data Logger: 16 GSD card, 64 data points including

flowrate, totalizer time, data

High/Low with buzzer as option Alarm: • Protection: Converter - IP65; Sensor - IP68







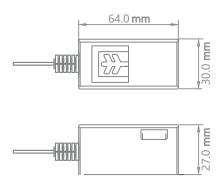
SMARTMEASUREMENT ALSONIC SERIES

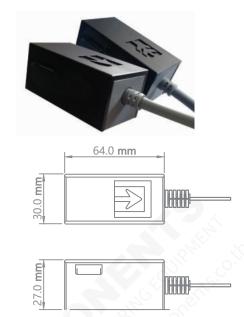
STANDARD TRANSDUCER

-22 ~ 167°F (-30 ~ +75°C) Fluid Temperature:

-22 ~ 230°F (-30 ~ +110°C)

Accuracy: 1%





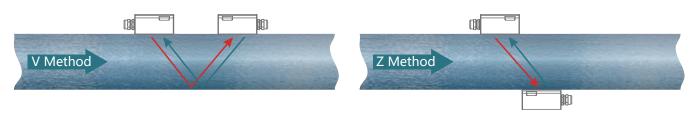
Model	SC1 (Medium Size)	SC2 (Large Size)			
Pipe Size	1" ~ 32" (DN25 ~ 800mm)	20" ~ 48" (DN500 ~ 1200mm)			

PRODUCT ACESSORIES



■ MEASURING PRINCIPLE

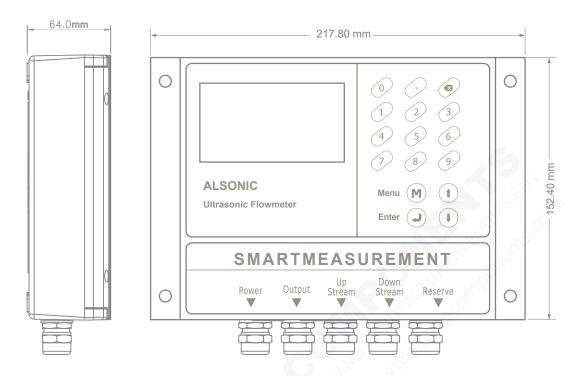
The ultrasonic signal from the transducer is transmitted and received through the moving liquid. The difference between the upstream and downstream transit time, is directly proportional to Fluid Velocity, used to calculate flow rate and velocity.





SMARTMEASUREMENT ALSONIC SERIES

DIMENSION



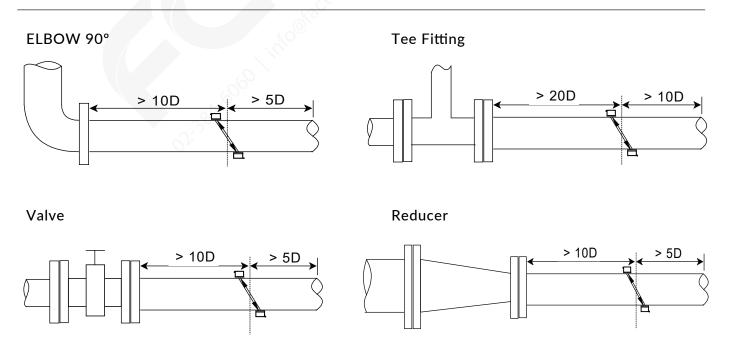
8.58" x 5.98" x 2.52" (218*152*64mm) Size: Isolated RS232/RS485 output **Outputs:**

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

Passwords, data linearity factor Parameters: 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



ALSONIC EG

SMARTMEASUREMENT ALSONIC SERIES

Please contact your **SmartMeasurement** application engineer You also need to provide the following information:

TYPE OF FLUID

FULL-SCALE FLOW RATE

LINE SIZE

Please provide the name of your fluid, including operating density and viscosity

Please provide the max, min and nominal flow rates.

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						<u> </u>	
Middle clamp sensor (-30~+75°C), 25~800 mm SC1						O	
Large clamp sensor (-30~+75°C), 500~1200 mm SC2						5.	
High Temperature clamp sensor (-30~+110°C), 25~500 mm HC1			Transducers				
Standard insertion sensor (-30~+110°C), 80~1200 mm				Transducers			
04SS inline sensor (-30~+110°C) with pipe size **			P. L.				
Other transducer		**	1500				
No Cables NC							
5m x 2 Cables			C1		Signal C Leng		
m cables up to +75 deg C			C				
**m cables up to +110 deg C							
Standard power supply: 10~36Vpc/1A.						Power Supply	
Option power supply: 90~245VAC, 50/60Hz						Power Supply	
None option					NN		
Worm gear steel mounting belt - please offer line size <dn500< td=""><td rowspan="5">Options</td></dn500<>						Options	
thickness gauge							
Clamped on PT1000 with 5m cable, a pair							
Clamped on PT1000 with **m cable, a pair							
Data logger for wall mount							
Ex proof chassis for wall mount transmitter							



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