



TOTALMAS SDN BHD

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

• 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.

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

Totalizer 8 digits, forward, reverse & net values

Engineering Units Million Gallon, Cubic Feet, US

Barrels, Imperial Barrels, Oil Barrel

Time Units second, minute, hour, day

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

± 5% of reading (0.1 ~ 10m/s)

Repeatability: ±1% of readingCommunication: 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)
 Power Consumption: Less than 2W
 Power Supply: Std - 24V_{DC}

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

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

SmartMeasurement

sales@totalmas.com | www.totalmas.com

Page: 1

ALSONIC EG

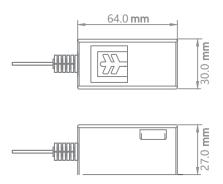
SMARTMEASUREMENT ALSONIC SERIES

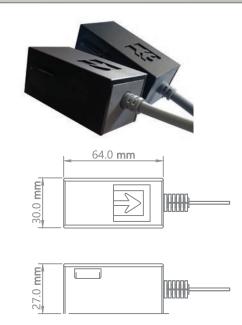
STANDARD TRANSDUCER

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

-22 ~ 230°F (-30 ~ +110°C)

Accuracy: 1%





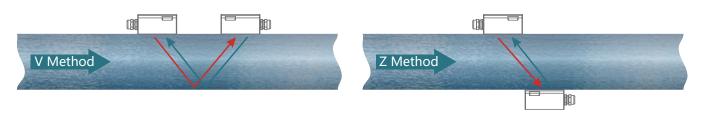
Model	SC1 (Medium Size)	SC2 (Large Size)
Pipe Size	1" ~ 32" (DN25 ~ 800mm)	20" ~ 48" (DN500 ~ 1200mm)

PRODUCT ACESSORIES



■ MEASURING PRINCIPLE

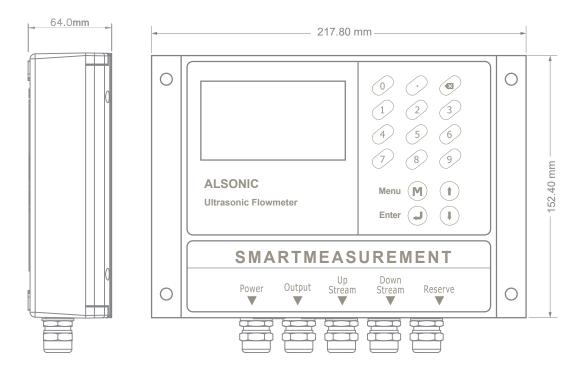
The ultrasonic signal from the transducer is transmitted and received through the moving liquid. The difference between the upstream and downstream transit time, is directly proportional to Fluid Velocity, used to calculate flow rate and velocity.



SMARTMEASUREMENT ALSONIC SERIES

logger (optional)

DIMENSION



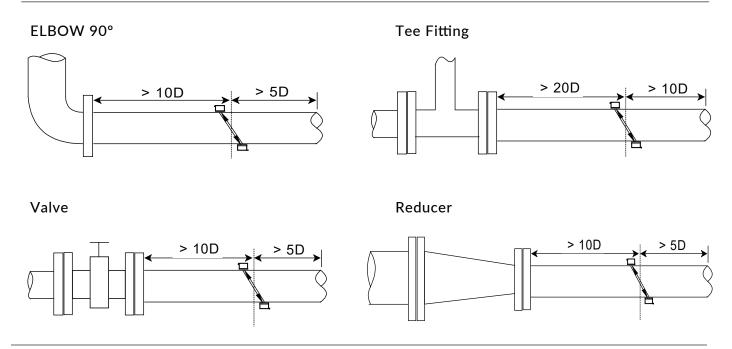
Size: 8.58" x 5.98" x 2.52" (218*152*64mm) Outputs: Isolated RS232/RS485 output

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)

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, EG RS485 Middle clamp sensor (-30~+75°C), 25~800 mm SC1 Large clamp sensor (-30~+75°C), 500~1200 mm SC2 High Temperature clamp sensor (-30~+110°C), 25~500 mm HC1 **Transducers** Standard insertion sensor (-30~+110°C), 80~1200 mm IC1 304SS inline sensor (-30~+110°C) with pipe size ** DN Other transducer No Cables NC 5m x 2 Cables C1 Signal Cable Length C** **m cables up to +75 deg C H** **m cables up to +110 deg C Standard power supply: 10~36Vpc/1A. DC **Power Supply** Option power supply: 90~245VAC, 50/60Hz AC NN None option Worm gear steel mounting belt - please offer line size < DN500 SM TT thickness gauge Clamped on PT1000 with 5m cable, a pair **RTD Options** Clamped on PT1000 with **m cable, a pair R** Data logger for wall mount DL Ex proof chassis for wall mount transmitter EX



TOTALMAS SDN BHD

No.28-1 Jln Wangsa Setia 4, Wangsa Melawati, 53300 Kuala Lumpur, Malaysia T: +603-4148 1003 F: +603-4143 9979

E: sales@totalmas.com