• Display:

Flowrate





GENERAL

THE SMARTMEASURERMENT ALSONICFX2 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. For BTU/Energy applications both clamp-on and insertion RTDs are available.

FEATURES

- 3 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 RTDs for BTU/Eenergy applications
- 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: M: 1" ~ 31" (25mm ~ 800 mm)

L: 20" ~ 47" (500 mm ~ 1200 mm)

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

Copper, PVC, Aluminum,

Asbestos, Fiberglass, etc. 2 line LCD with backlight 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

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

 \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

-5 ~ 122°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 - 85 ~ 264V_{AC}, 50/60 HZ

• 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

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





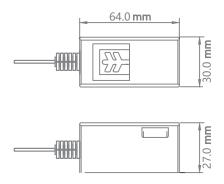


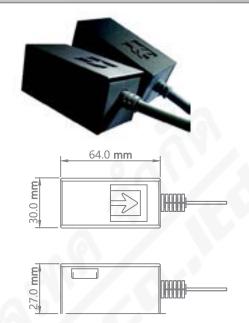


STANDARD TRANSDUCER

-22 ~ 230°F (-30 ~ +110°C) Fluid Temperature:

1% Accuracy:





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.



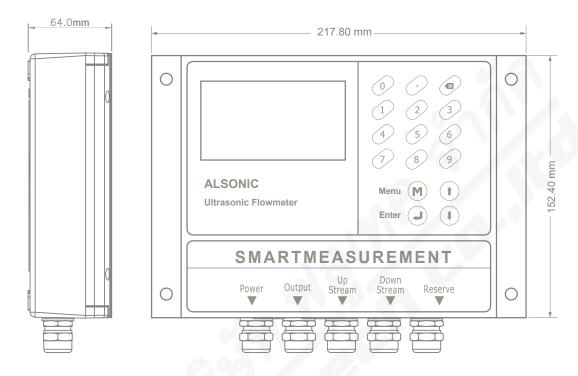








DIMENSION



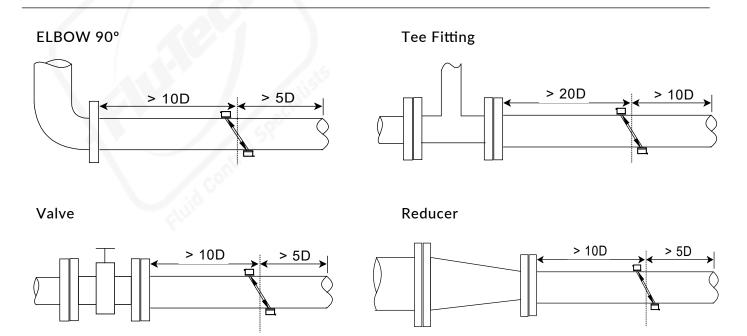
8.58" x 5.98" x 2.52" (218*152*64mm) Isolated RS232/RS485 output Size: **Outputs:**

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

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

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

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







logger (optional)

ALSONIC FX2

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-FX SERIES			.41	
EXAMPLE: ALSONIC-FX2-SC1-C1-NN		9		
ALSONIC-FX **	**	**	**	DESCRIPTION
Wall mount with display and RS485				Flow Meter
Middleclamp sensor(-30 ~ +75°C), 1" ~ 31" (25 ~ 800mm)				
Large clamp sensor (-30 ~ +75°C), 20" ~ 48" (500 ~ 1200 mm)	SC2			Transducers
High Temperature clamp sensor (-30 ~ +110 $^{\circ}$ C), 1" ~ 20" (25 ~ 500mm)	HC1			
Standard insertion sensor (-30 \sim +110 $^{\circ}$ C), 3" \sim 47" (80 \sim 1200 mm)	IC1			
304SS Inline sensor (-30 ~ +110°C) with pipe size **	DN			
Other transducer	**			
No cable		NC		
5M x 2 Cables				Signal Cable
m cables up to +75°C	C		Length	
m cables up to +110°C	H			
No option				
Worm gear steel mounting belt - please offer line size < DN500	SM			
Thickness gauge				Options
Data logger for wall mount				
Ex proof chassis for wall mount transmitter				

FLU-TECH CO. LTD.



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