



Wall Mount Ultrasonic Flowmeter SL1168

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FEATURES AND CASES



SL1188 Ultrasonic Flowmeter is a state-of-the-art transit time ultrasonic flowmeter. Designed using the latest digital technology and low-voltage broadband pulse transmission.

While principally designed for full-pipe clean liquid applications. The instrument is tolerant of liquids with small amounts of air bubbles or suspended solids found in most industrial environments.

Comparing with other traditional flowmeter or ultrasonic flowmeter, it has distinctive features such as high precision, high reliability, high capability and low cost, other features:

TVT technology designed.

Less hardware components, low voltage broadband pulse transmission, low consumption power.

Clear, user-friendly menu selections make flowmeter simple and convenient to use.

Daily, monthly and yearly totalized flow.

Parallel operation of positive, negative and net flow totalizes with scale factor (span) and 7 digit display, while the output of totalize pulse and frequency output are transmitted via relay and open collector.













SPECIFICATION

PERFORMANCE SPECIFICATIONS

Flow range	± 0.03 ft/s $\sim \pm 40$ ft/s (± 0.01 m/s $\sim \pm 12$ m/s)
Accuracy	$\pm 0.5\%$ of measured value (for $\pm 1.5 ft/s \sim \pm 40 ft/s$)
Repeatability	0.15% of measured value
Linerarity	±0.5%
Pipe size	1"to 200" (25mm to 5000mm)

FUNCTION SPECIFICATIONS

Outputs	Analog output: 4^20mA , max load 750Ω . Pulse output: 0^2999Hz , OCT, (min. and max. frequency is adjustable) Realy output: SPST, max $1Hz$, ($1A@125VAC$ or $2A@30VDC$)
Communication	RS232&RS485
SD Card	Standard SD card Max record:512days Record time interval
Power supply	90 to 245 VAC, 48 to 63 Hz. Or 10 to 36VDC
Keypad	22 keys with tactile action
Display	40 character, 2 line (20 $ imes$ 2) lattice alphanumeric, back lit LCD.
Temperature	Transmitter:- $40^{\circ}F^{-}140^{\circ}F(-40^{\circ}C^{-}60^{\circ}C)$ Transducer:- $40^{\circ}F^{-}176^{\circ}F(-40^{\circ}C^{-}80^{\circ}C, standard)$
Humidity	Up to 99% RH,non-condensing

PHYSICAL SPECIFICATIONS

Transmitter	NEMA 4X (IP65), Die-cast aluminum
Transducer	Encapsulated design double-shielded transducer cable Standard/maximum cable length:30ft/1000ft(9m/305m)
Weight	Transmitter:approximately 2.15kg; Transducer:approximately 0.9kg.









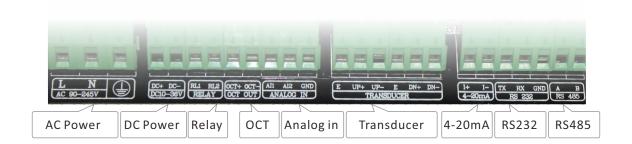


Pipe strips Coupling compound

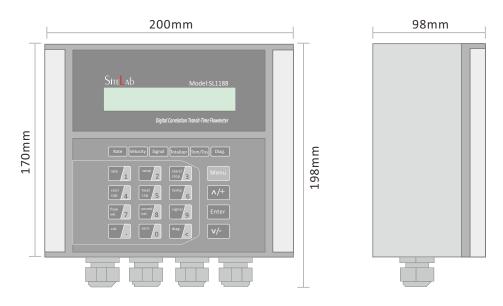
SD card

INTERFACE AND SIZE

WIRING DIAGRAM



TRANSMITTER DIMENSIONS

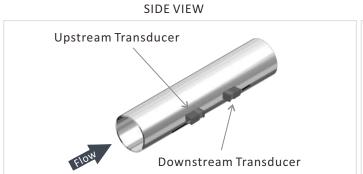


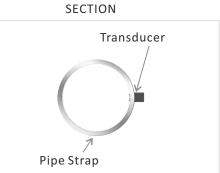
TRANSDUCER



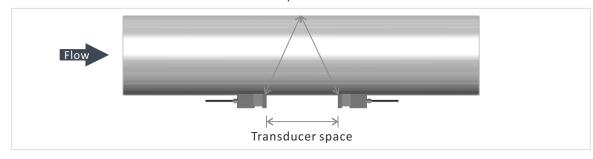
TRANSDUCER INSTALLATION METHODS

V METHOD MEASURING PIPE SIZE: 25MM-400MM

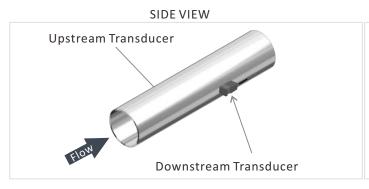


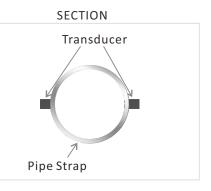


Top View

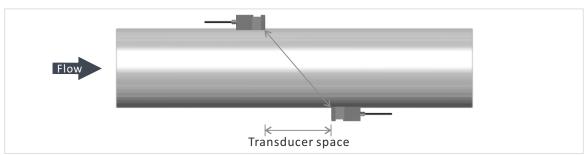


Z METHOD MEASURING PIPE SIZE: 100MM-3000MM





TOP VIEW



INSTALLATION SITE SELECTION

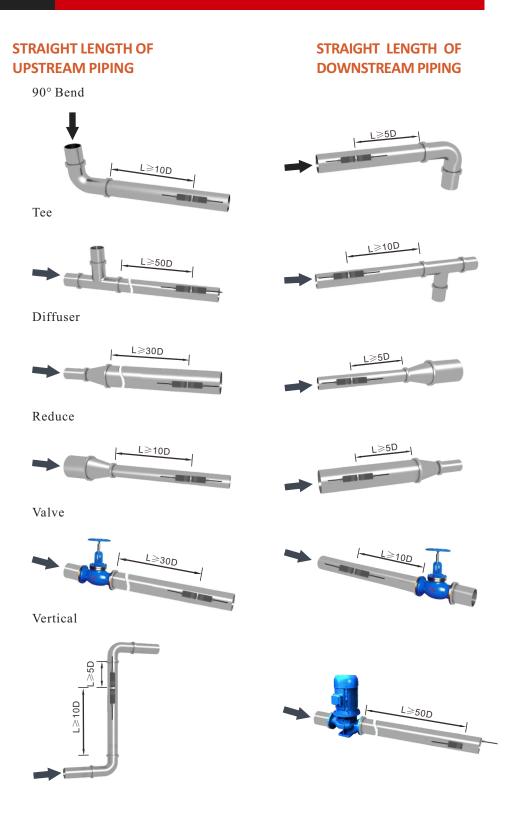
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

Choose a section of pipe that is always full of liquid, such as a vertical pipe with flow in the upward direction or a full horizontal pipe.

Ensure enough straight pipe length at least equal to the figure shown below for the upstream and downstream transducers installation.

Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.

Consider the inside condition of the pipe carefully. If possible, select a section of pipe where the inside is free of excessive corrosion or scaling.



MODEL

ORDERING INFORMATION

SL1188	Digital Correlation Transit Time Flowmeter Installation method: Wall mount 2G SD card high memory data logging, maximum memorize 512 days data. Flow Range: 0.03 ~ ±40ft/s (0.01~ ±12 m/s) Accuracy: ±0.5% of measured value Repeatability: 0.15% Pipe Size Range: 1"~200"(25mm ~ 5000mm) Keyboard:16 (4×4) touch keys Display: 20*2, alphanumeric, backlit LCD Power supply: 90-250VAC, 48-63 Hz or 10-36V DC Transmitter enclosure: IP65, die-cast aluminum machined enclosure Output: 4~20mADC, OCT pulse output, relay output Communication: RS-232 / RS-485 terminal Modbus Protocol
CODE	OUTPUT
1	4-20mA, OCT pulse output, relay output, RS-232 / RS-485
2	4-20mA, OCT pulse output, relay output, RS-232 / RS-485, RTD temperature input
CODE	TRANSMITTER ENCLOSURE AREA CLASSIFICATION
1	IP65, die-cast aluminum machined enclosure
2	Explosion-proof enclosure , Ex dia II BT4
CODE	TYPE OF TRANSDUCERS
C010	Clamp on transducer, Operating temperature:-40°F \sim +176°F (-40°C \sim +80°C)
CH020	High temperature Clamp on transducer:32 $^{\circ}F \sim +302 ^{\circ}F (0 ^{\circ}C \sim +150 ^{\circ}C)$
W211	Insertion transducer, Operating temperature:-40 $^{\circ}F \sim$ +176 $^{\circ}F$ (-40 $^{\circ}C \sim$ +80 $^{\circ}C$)
WH101	High temperature Insertion transducer: 32 $^{\circ}F \sim +302 ^{\circ}F (0 ^{\circ}C \sim +150 ^{\circ}C)$
CODE	TRANSDUCER CABLE LENGTH
030	Standard 30ft (9m)
xxx	Maximum lengthen to 305m(1000ft), per 5m is a lengthen unit.

Standard Model: SL1188-1-1-C010-030

Description: Standard enclosure with Clamp-on transducers, RS232/RS485, 9m cable.

DESCRIPTION

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