# SITELAD SL1188-W



Water distribution

Liquid petroleum products

Pipeline leak detection

Chemicals

Energy management systems

Process plant water and chemicals

High repeatability 0.3%

One meter for a wide range of pipe sizes:  $2\sim200"(50\text{mm}\sim5000\text{mm})$ 

Wide bi-directional flowrange:  $-40\sim0\sim+40$ ft/s ( $-12\sim0\sim+12$ m/s)

Robust design forrugged service and severe environments

The SL1188 Series correlation ultrasonic flowmeter is an excellent alternative to magnetic, vortex, differential pressure, and other types of flowmeters used in industrial, water and wastewater, and water distribution applications.

Though principally designed for clean liquid applications, the SL1188 is tolerant of liquids with small amounts of gas/air bubbles or suspended solids found in most industrial environments.

The SL1188 utilizes the world's most advanced IC and microprocessor technology and timing circuitry (0.01 nS), which gives the SL1188 the advantage of high precision, high reliability and low cost.

The SL1188 Series is manufactured of high quality materials by an ISO9001 certified manufacturing unit. The

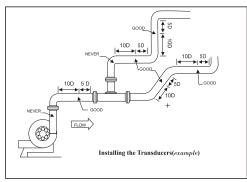
client enjoys the support of ultrasonic flow measurement professionals with much experience from the mid-1970's. The client has the advantage to receive excellent support and application knowledge to assist him in achieving the best success in applying our flowmeters to their applications, as well as resolve any potential problems quickly.



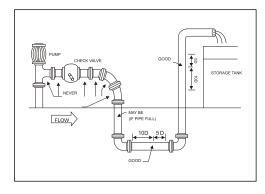
Sensor installation on pipe, Z-method

## **INSTALLATION**

### Site selection



### Sensor location

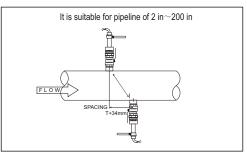


Proper site selection for the installation of the ultrasonic flow sensors is critical to the successful performance of any flowmeter that measures velocity in a pipe section of known dimensions. It is especially true of ultrasonic flowmeters and any other velocity measurement type flowmeters.

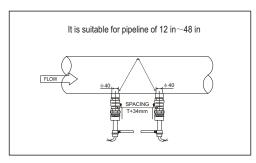
The drawings provided above give some help in proper site selection and sensor location for installation.

The method of sensor installation varies with pipe size and other conditions.

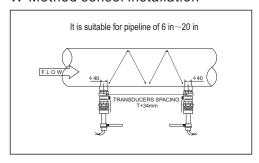
### Z-Method sensor installation



### V-Method sensor installation



### W-Method sensor installation

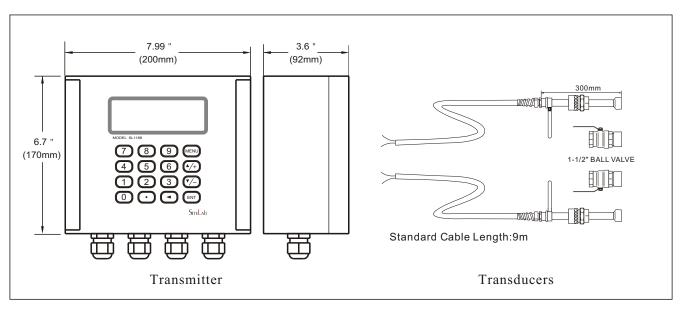




# **SPECIFICATIONS**

Performance spe	cifications				
Flow range	$0 \sim \pm 40 \text{ ft/s } (0 \sim \pm 12 \text{ m/s})$				
Accuracy	$\pm 1.0\%$ of measured value (for $1.5\sim 40$ ft/s or $-1.5\sim -40$ ft/s)				
Repeatability	0.3%				
Linearity	±1.0%				
Pipe size	2 in to 200 in (50mm to 5000mm)				
Function specific	ations				
Outputs	Analog output: 0/4~20mA (max load 750 Ω)  Pulse output: 0~9999Hz, OCT, (min. and max. frequency is adjustable)  Relay output: SPST, max 1Hz, (1A@125VAC or 2A@30VDC)				
Power supply	90 to 245 VAC, 48 to 63Hz. or 10 to 36 VDC				
Keypad	16 (4*4) key with tactile action				
Display	40 character, 2 line (20*2), alphanumeric, backlit LCD				
Temperature	Transmitter: $-40^{\circ}\text{C} \sim 60^{\circ}\text{C}$ Transducer: $-40^{\circ}\text{C} \sim 110^{\circ}\text{C}$ (standard)				
Humidity	Up to 99%RH, non-condensing				
Physical specific	ations				
Transmitter	NEMA 4X (IP 65), Die-cast aluminum, (Optional) NEMA 6P (IP 68)				
Transducer	Encapsulated design Standard/maximum cable length: 30ft/1000ft (9m/305m)				

# **DIMENSIONS**



# **Ordering Information**

Model Code	Description					
SL1188	Digital correlation transittime flowmeter					
	Calorimeter function					
	Display: 20*2, alphanumeric, backlit LCD					
	Flow range: $0 \sim \pm 40$ ft/s $(0 \sim \pm 12$ m/s)					
	Keypad: 4*4 key					
	Output: 0/4~20 mADC, OCT, Relay (SPST)					
	Power Supply: 90 to 245VAC, 48 to 63Hz or 10 to 36VDC					
Optional Code	Transducer					
W	Standard insertion type, Pipe wall thickness≦30mm.					
WL	Insertion type, Pipe wall thickness:30mm~130mm.					
Optional Code	Output					
1	RS232C					
2	Rs485					
Optional Code	Transducer Cable Length					
30A	30 ft. (9m), Standard					
$\times \times \times \times A$	Additional cable length, max. 1000 ft. (305m), 10 ft. Increments					
Typical Model Nun	nber: SL1188-W-1-30A					

Represented by:			

