



SiteLab

Ultrasonic Flowmeter SL1288i

About SL1288i

SL1288i Portable Ultrasonic Flowmeter enables the user to do flow measurement checks at many points in a flowprocess without the need for a permanent installation.

This ultrasonic flowmeter adopts Gentos unique PICOFLY time measurement technology, which could make the resolution reach to 10 picoseconds (0.01 nanosecond). It realizes the high respondence and high accuracy ultrasonic measurement technology and application.

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

PICOFLY 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.



Applications



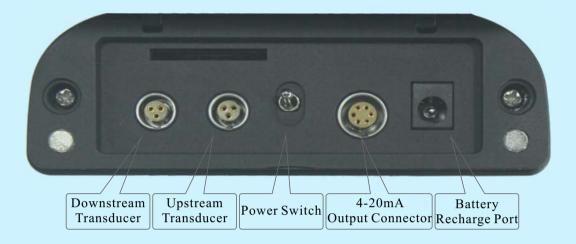
Specification

Performance specifications		
Flow range	$\pm 0.03 \sim \pm 40 \text{ ft/s } (\pm 0.01 \sim \pm 12 \text{ m/s})$	
Accuracy	$\pm 0.5\%$ of measured value	
Repeatability	0.15%.	
Linearity	$\pm 0.5\%$.	
Pipe Size	Clamp-on:0.6"~ 240" (15mm~6000mm)	
Function specifications		
Outputs	Analog output: $4\sim20$ mA, Max 750 Ω .	
SD card	Storage: 2GB; Max: 512 days; Interval: 1 ~ 60 seconds.	
Power supply	rechargeable Lithium Battery Power (continuous operation of mainbattery 10 hours).	
Keypad	Tactile Keys.	
Display	3.5 inch TFT color screen(320×240), backlit LCD.	
Tomporatura	Transmitter:14°F~122°F(-10°C~50°C)	
Temperature	Transducer:- $40^{\circ}F\sim176^{\circ}F(-40^{\circ}C\sim80^{\circ}C,standard)$	
Humidity	0 to 99% RH,non-condensing	
Physical specifications		
Transmitter	NEMA13 (IP54).	
Transducer	Encapsulated design, IP68; Standard cable length: 5m.	
Weight	Transmitter:approximately1.0kg.	



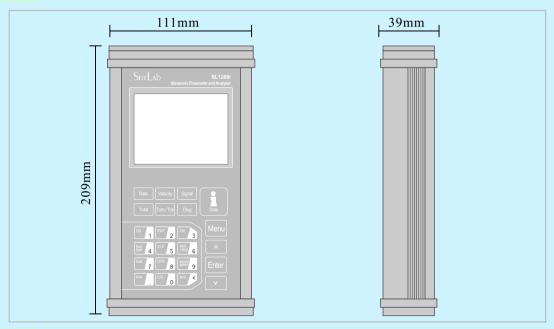


Wiring Diagram

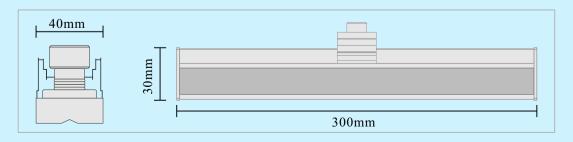


Transmitter Dimensions

Transmitter



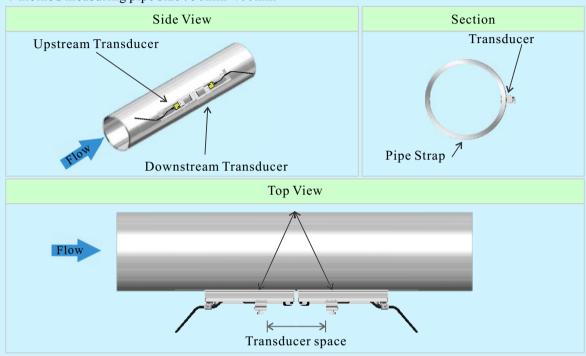
Transducer

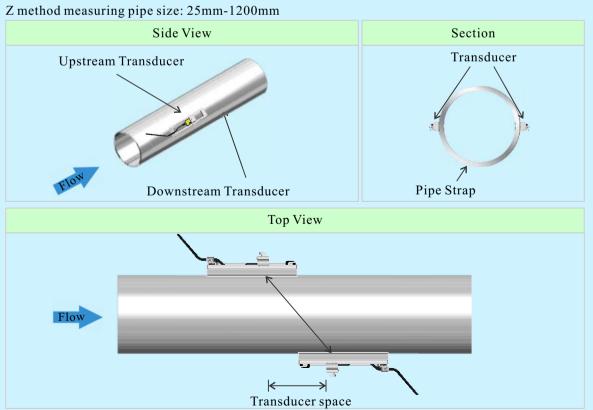




Transducer Installation Methods

V method measuring pipe size: 50mm-400mm







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Ultrasonic Flowmeter SL1288i

Installation Site Selection

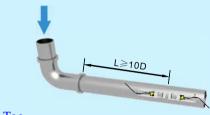
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

- 1. 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.
- 2.Ensure enough straight pipe length at least equal to the figure shown below for the upstream and downstream transducers installation.
- 3.Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.
- 4. 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.

Straight length of upstream piping

Straight length of downstream piping

90° Bend





Tee





Diffuser





Reduce





Valve





Vertical







Ordering Information

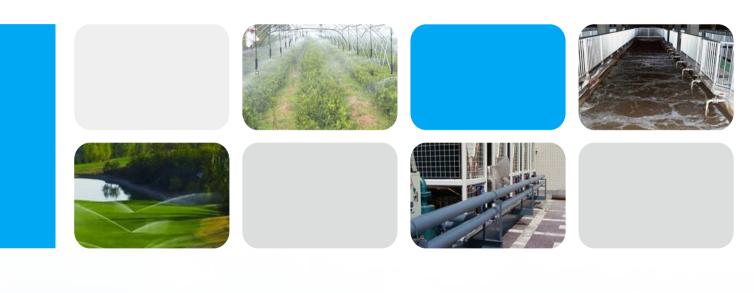
Model	Description
SL1288i	Handheld Ultrasonic Flowmeter Installation method: Handheld 2G SD card high memory data logging, maximum memorize 512 days data. Flow Range: ± 0.03 ft/s $\sim \pm 40$ ft/s (± 0.01 m/s $\sim \pm 12$ m/s) Accuracy: $\pm 0.5\%$ of measured value Repeatability: 0.15% Output: $4\text{-}20\text{mA}$ Internal lithium power supply: 10hours Pipe size range: $0.6\text{"}\sim 240\text{"}(15\text{mm}\sim 6000\text{mm})$ Transducer: IP68, CP magnet portable transducer, 5m cable
Code	Type of transducers
P010	P type magnet portable transducer Operating temperature: $40^{\circ}F \sim 176^{\circ}F(-40^{\circ}C \sim 80^{\circ}C)$
Code	Transducer Cable Length
016	CP type of cable Standard 16ft (5m)
XX	Maximum lengthen to 30m, per 5m is a lengthen unit.
Standard Model: SL1288i-P010-016 Description: Portable transducers, 5m cable.	

Packaging



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Ultrasonic Flowmeter SL1278





About SL1278

SL 1278 Portable Ultrasonic Flowmeter enables the user to doflow measurement checks at many points in a flow processwithout the need for a permanent installation.

This universal transit-time meter features a dual-function push button interface, ergonomic handheld design and abeautiful 3.5 in TFT backlit digital display that significantly simplifies setup and data collection.

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

TVT technology designed.Less hardware components, low voltage broadband pulse transmission, low consumption power.Clear, user-friendly menu selections make flowmeter simpleand 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 viarelay and open collector.



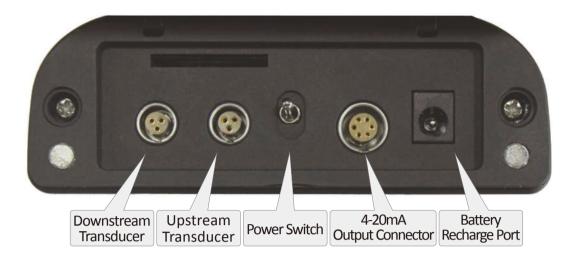
Applications



Specification

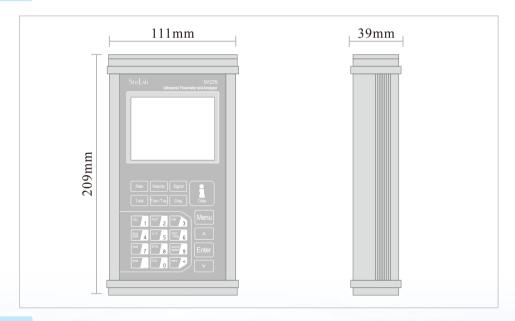
	Performance specifications
Flow range	±0.03 ~ ±40 ft/s (±0.01~ ±12 m/s)
Accuracy	±1%.
Repeatability	0.3%.
Linearity	±1%.
Pipe Size	Clamp-on:1"~48" in(25mm~1200mm)
	Function specifications
Outputs	Analog output: 4~20mA, Max 750 Ω .
SD card	Storage: 8GB;
3D Calu	Max: 512 files;
	Interval: 1 ~ 60 seconds.
Power supply	rechargeable Lithium Battery Power
	(continuous operation of mainbattery 10 hours).
Keypad	Tactile Keys.
Display	3.5 inch TFT screen(320 × 240), backlit LCD.
Tomporatura	Transmitter:14 $^{\circ}$ F $^{\sim}$ 122 $^{\circ}$ F(-10 $^{\circ}$ C $^{\sim}$ 50 $^{\circ}$ C)
Temperature	Transducer: $40^{\circ}F^{\sim}176^{\circ}F$ ($-40^{\circ}C^{\sim}80^{\circ}C$)
Humidity	0 to 99% RH,non-condensing
	Physical specifications
Transmitter	NEMA13 (IP54).
Tuo no altri a ari	Encapsulated design, IP68;
Transducer	Standard cable length: 5m.
Weight	Transmitter:approximately1.0kg.

Wiring Diagram

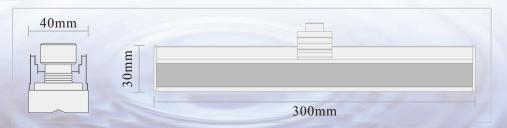


Transmitter Dimensions

Transmitter

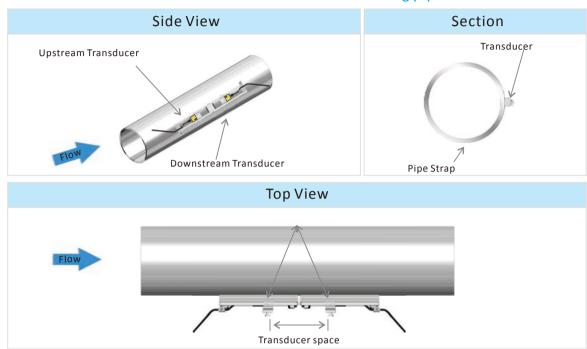


Transducer

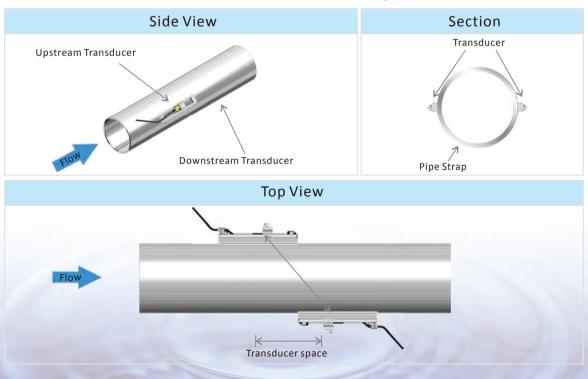


Transducer Installation Methods

V method measuring pipe size: 50mm-400mm



Z method measuring pipe size: 25mm-1200mm



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.

Straight length of upstream piping Straight length of downstream piping 90° Bend Tee Diffuser Reduce Valve Vertical

Ordering Information

Description		
SL1278	Handheld Ultrasonic Flowmeter Installation method: Handheld 8G SD card high memory data logging, maximum memorize 512 days data. Flow Range: ±0.03 ft/s ~ ±40 ft/s (±0.01 m/s~ ±12 m/s) Accuracy: ±1% Repeatability: 0.3% Output: 4-20mA Internal lithium power supply: 10hours Pipe size range: 1"~48"(25mm~1200mm) Transducer: IP54, CP magnet portable transducer, 5m cable	
Type of transducers		
P010	P type magnet portable transducer Operating temperature: $40^{\circ}F^{\sim}176^{\circ}F$ (- $40^{\circ}C^{\sim}80^{\circ}C$)	
Transducer Cable Length		
016	P type of cable Standard 16ft (5m)	
XX	Maximum lengthen to 305m, per 5m is a lengthen unit.	
Standard Model: P117-P010-016 Description: Portable transducers, 5m cable.		

Packaging

