

Medidor Ultrasónico Portátil GT-P118IP010016

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pFlow

Ultrasonic Flowmeter P118i











About P118i

P118i Portable Ultrasonic Flowmeter enables theuser 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, while the output of totalize pulse and frequency output are transmitted via relay and open collector.



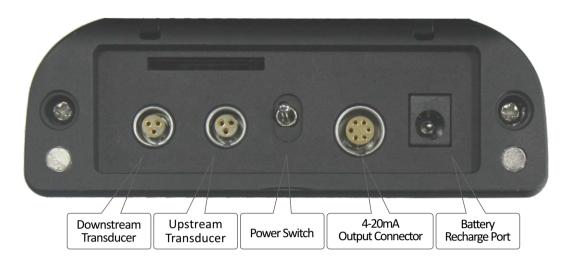
Applications



Specification

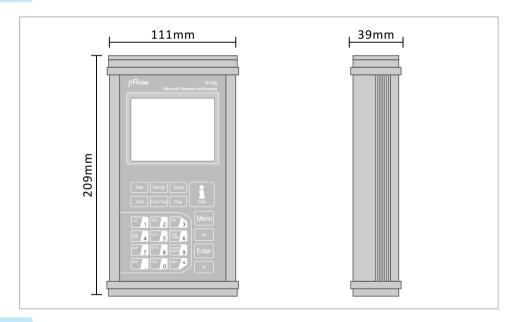
	Performance specifications
Flow range	±0.03 ~ ±40 ft/s (±0.01~ ±12 m/s)
Accuracy	±0.5% of measured value
Repeatability	0.15%.
Linearity	±0.5%.
Pipe Size	Clamp-on:0.6"~ 240" (15mm~6000mm)
	Function specifications
Outputs	Analog output: 4~20mA, Max 750 Ω .
SD card	Storage: 2GB; Max: 512 files; Interval: 1 ~ 60 seconds.
Power supply	rechargeable Lithium Battery Power (continuous operation of mainbattery 10 hours).
Keypad	Tactile Keys.
Display	3.5 inch TFT color screen(320 × 240), backlit LCD.
Temperature	Transmitter:14°F~122°F(-10°C~50°C) Transducer:-40°F~176°F(-40°C~80°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

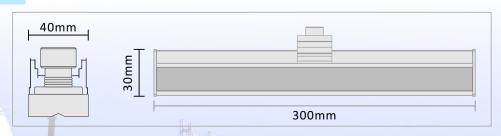


Transmitter Dimensions

Transmitter



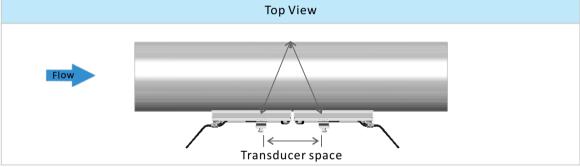
Transducer



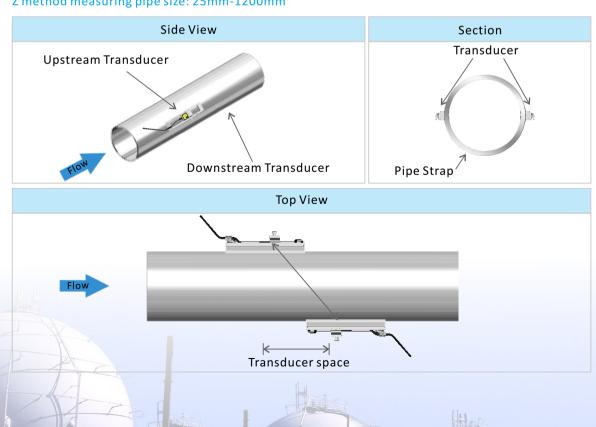
Transducer Installation Methods

V method measuring pipe size: 50mm-400mm





Z method measuring pipe size: 25mm-1200mm



Installation Site Selection

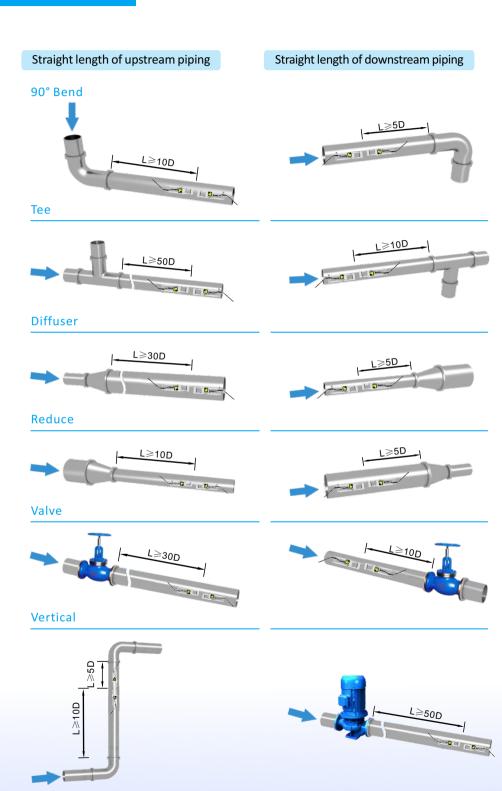
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

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.



Ordering Information

Description		
P118i	Handheld Ultrasonic Flowmeter Installation method: Handheld 2G 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: ±0.5% of measured value Repeatability: 0.15% Output: 4-20mA Internal lithium power supply: 10hours Pipe size range: 0.6"~240"(15mm~6000mm) Transducer: IP68, P 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 30m, per 5m is a lengthen unit.	
	odel: P118i-P010-016 Portable transducers, 5m cable.	

Packaging



- ① Carrying Case
- 2 Transmitter
- 3 Transducer with scaled rack
- 4 Pipe Circles
- **5** Grease Coupling Compound
- 6 SD Card

Product Line

D116 Dedicated Ultrasonic Flowmeter



Accuracy:

±1%

Flow range:

0.03 ~±16ft/s

Pipe Size Range:

1"~48"

P116 Portable Ultrasonic Flowmeter



Accuracy:

±1%

Flow range:

0.03 ~ ±40ft/s

Pipe Size Range:

1"~48"

D118 Dedicated Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

 $0.03 \sim \pm 40 ft/s$

Pipe Size Range:

1"~200"

P118i Portable Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

0.03 ~ ±40ft/s

Pipe Size Range:

0.6"~240"

D118i Dedicated Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

0.03~±40ft/s

Pipe Size Range:

1''~200''

Application

Prefect performance in single liquid medium. Eg:Water,Pure water,Beer,Oil, etc.

Remark: The above mode choose doesn't including the spool piece, it is for customization.

Gentos Measurement & Control Co., Ltd. 12/F, Block A5. Nanshan Ipark, No.1001 College Rd.

Nanshan District. Shenzhen CHINA Tel: 86-755-26745999

Fax: 86-755-26745333 E-mail: intl@gentos.com.cn Reps:

Version:P118i-201601



ULÁMANOS

+52(81) 8115-1400 / +52 (81) 8173-4300

LADA Sin Costo: 01 800 087 43 75

E-mail: ventas@twilight.mx



