pFlow

Ultrasonic Flowmeter





About P117

P117 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 ultrasonic flowmeter, it has distinctive features such as high precision, high reliability, high capability and low cost, the flowmeter features 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

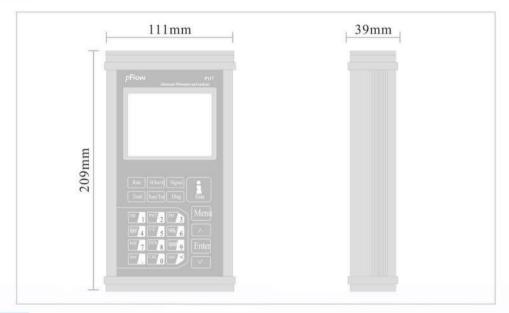
999	Performance specifications
Flow range	$\pm 0.03 \sim \pm 40 \text{ ft/s } (\pm 0.01 \sim \pm 12 \text{ m/s})$
Accuracy	$\pm 1\%$.
Repeatability	0.3%.
Linearity	$\pm 1\%$.
Pipe Size	Clamp-on:1"~48" in(25mm~1200mm)
	Function specifications
Outputs	Analog output: $4\sim20$ mA, Max 750 Ω .
SD card	Storage: 8GB;
	Max: 512 files;
	Interval: $1 \sim 60$ seconds.
Power supply	rechargeable Lithium Battery Power
rower suppry	(continuous operation of mainbattery 10 hours).
Keypad	Tactile Keys.
Display	3.5 inch TFT screen(320×240),
Display	backlit LCD.
Tomporatura	Transmitter:14°F~122°F(-10°C~50°C)
Temperature	Transducer:40°F~176°F(-40°C~80°C)
Humidity	0 to 99% RH,non-condensing
	Physical specifications
Transmitter	NEMA13 (IP54).
Tuomadus	Encapsulated design, IP68;
Transducer	Standard cable length: 5m.
Weight	Transmitter:approximately1.0kg.

Wiring Diagram

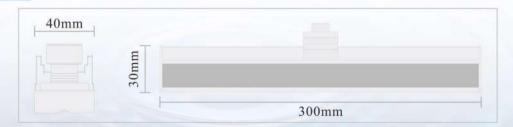


Transmitter Dimensions

Transmitter

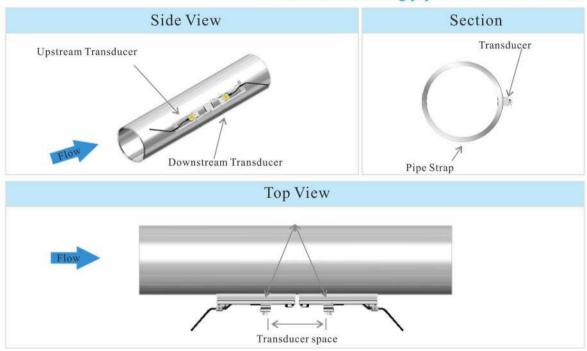


Transducer

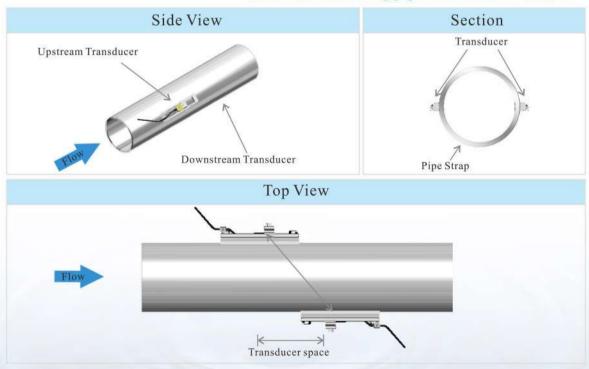


Transducer Installation Met

V method measuring pipe size: 50mm-400mm



Z method measuring pipe size: 25mm-1200mm



Installation Site Selection

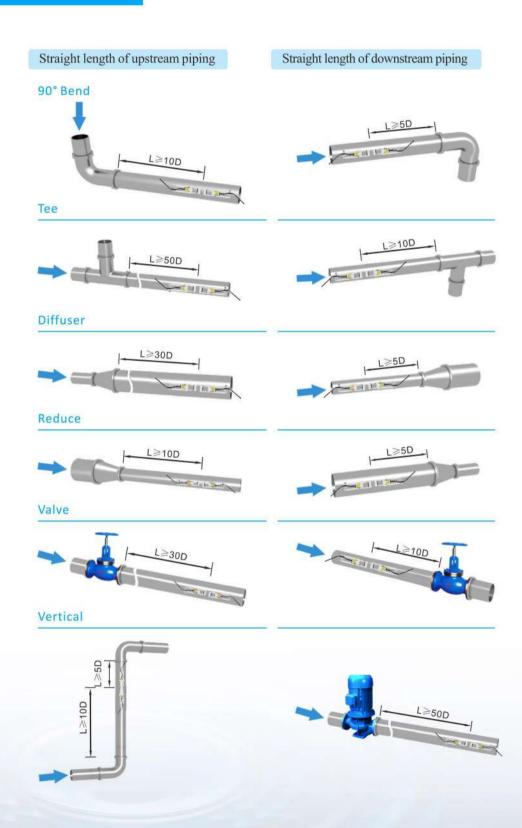
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

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

117	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
	P type magnet portable transducer Operating temperature: 40°F~176°F(-40°C~80°C)
	Transducer Cable Length
016	P type of cable Standard 16ft (5m)
xx	Maximum lengthen to 305m, per 5m is a lengthen unit.

Packaging



- Carrying Case
- 2 Flow 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"

P117 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 ~ ±40ft/s

Pipe Size Range:

1"~200"

P118i Portable Ultrasonic Flowmeter



Accuracy:

±0.5%

Flow range:

0.03 ~ ±40ft/s

Pipe Size Range:

1"~200"

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.

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Reps:

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