



Portable Ultrasonic Flowmeter P118i

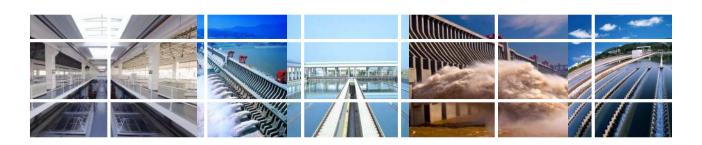
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## ABOUT P118i——— FEATURES AND CASES







#### **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:1"~ 240" (25mm~6000mm)

#### **FUNCTION SPECIFICATIONS**

Outputs	Analog output: 4~20mA, Max 750 $\Omega$ .
SD card	Storage: 8GB; 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.
Temperature	Transmitter: $14^{\circ}F^{-1}22^{\circ}F(-10^{\circ}C^{-5}0^{\circ}C)$ Transducer: $40^{\circ}F^{-1}76^{\circ}F(-40^{\circ}C^{-8}0^{\circ}C)$
Humidity	0 to 99% RH,non-condensing

#### **PHYSICAL SPECIFICATIONS**

Transmitter	NEMA13 ( IP54 ).
Transducer	Encapsulated design, IP68; Standard cable length: 5m.
Weight	Transmitter:approximately1.0kg.
	RE CATIO READER SDHC Card











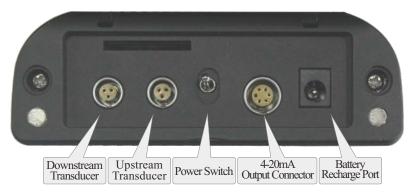
Card reader and SD card



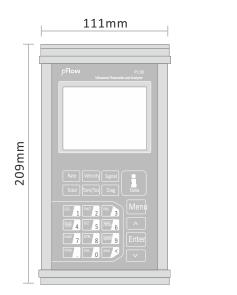
mitter and Pipe strips Coupling compour

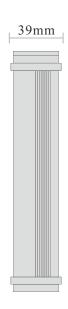
# ABOUT P118i———INTERFACE AND SIZE

#### **WIRING DIAGRAM**

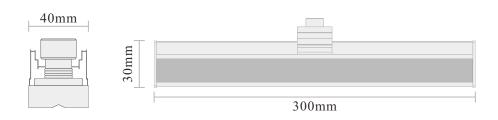


#### **Transmitter Dimensions**





#### Transducer

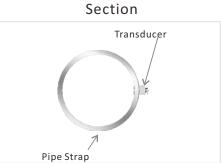


# ABOUT P118i TRANSDUCER INSTALLATION METHODS

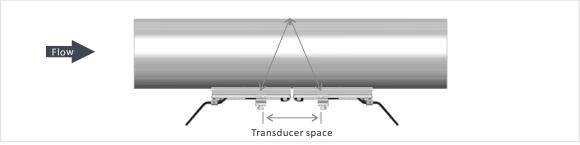
#### V method measuring pipe size: 50mm-400mm



Downstream Transducer

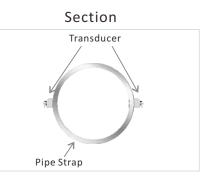


Top View

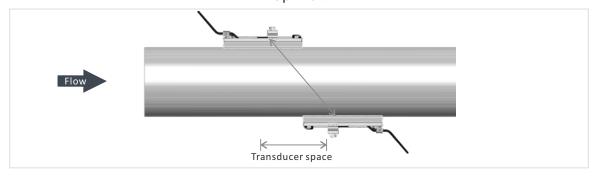


#### Z method measuring pipe size: 25mm-1200mm





Top View



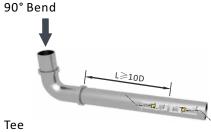


## **ABOUT P118i-INSTALLATION SITE SELECTION**

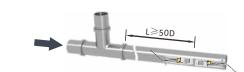
#### **STRAIGHT LENGTH OF UPSTREAM PIPING**

90° Bend

STRAIGHT LENGTH OF **DOWNSTREAM PIPING** 









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

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 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.







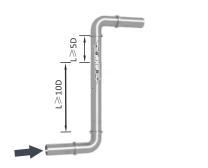
Reduce



Valve



Vertical







#### MODEL DESCRIPTION

P118i	Portable 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: ±0.5% Repeatability: 0.1% Output: 4-20mA
P118i	Repeatability: 0.1%
	Internal lithium power supply: 10hours Pipe size range: 0.6"~48"(15mm~6000mm)
	Transducer: IP54, CP magnet portable transducer, 5m cable

#### CODE TYPE OF TRANSDUCERS

P010	P type magnet portable transducer Operating temperature: $40^{\circ}F^{\sim}176^{\circ}F$ (- $40^{\circ}C^{\sim}80^{\circ}C$ )
PH020 (optional)	PH type High temperature Clamp on transducer, 10ft (3m)cable Installation: Clamp on Outer Shell: stainless steel Measurement range: $1'' \sim 48''$ (25mm $\sim 1200$ mm) Temperature: $-40^{\circ}\text{F} \sim +302^{\circ}\text{F}(-40^{\circ}\text{C} \sim +150^{\circ}\text{C})$

#### CODE TRANSDUCER CABLE LENGTH

016	P type of cable Standard 16ft (5m)
xx	Maximum lengthen to 305m, per 5m is a lengthen unit.

Standard Model: P118i-P010-016

Description: Portable transducers, 5m cable.

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