



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 $\Omega$ .
Outputs	Analog output: 4 Zonia, Max 750 S2.
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: $14^{\circ}F^{\sim}122^{\circ}F(-10^{\circ}C^{\sim}50^{\circ}C)$ 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 ).	
Transducer	Encapsulated design, IP68; Standard cable length: 5m.	
Weight	Transmitter:approximately1.0kg.	
	CARD READER. SDHC Card	











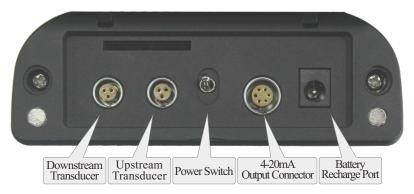
Card reader and SD card



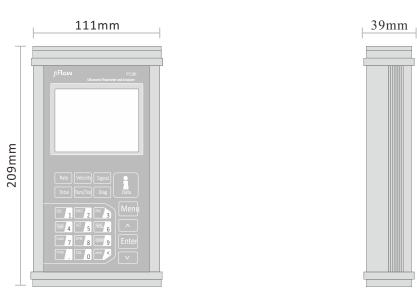
mitter and Pipe strips Coupling compoun

## ABOUT P118i———INTERFACE AND SIZE

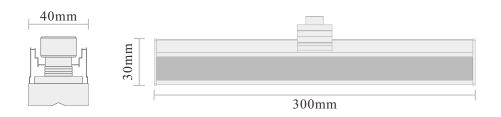
#### **WIRING DIAGRAM**



#### **Transmitter Dimensions**



#### Transducer

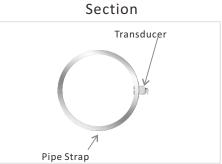


# ABOUT P118i TRANSDUCER INSTALLATION METHODS

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



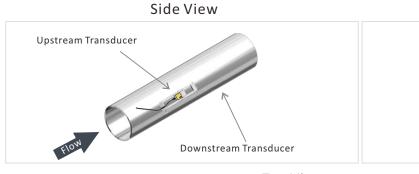
Downstream Transducer

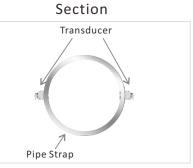


Top View

Transducer space

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





Top View

Flow

Transducer space



### **INSTALLATION SITE SELECTION**

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

#### STRAIGHT LENGTH OF **DOWNSTREAM PIPING**

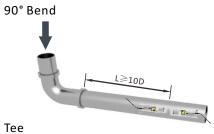
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

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.

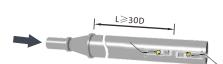
Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.

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.







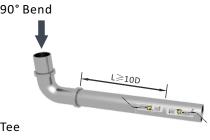


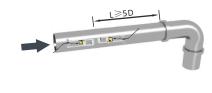


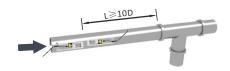








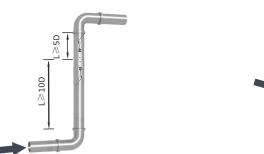
















#### MODEL DESCRIPTION

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
	,
	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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