



ABOUT P118i——— FEATURES AND CASES



P118i 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.





ABOUT P118i-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

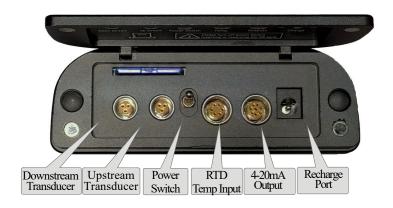
Outputs	Analog output: 4~20mA, Max 750 Ω.
SD card	Storage: 8GB; Max: 512 files; Interval: 1 ~ 60 seconds.
Power supply	Rechargeable Lithium Battery Power (continuous operation of mainbattery 10 hours).
Keypad	Tactile Keys.
Display	3.5 inch TFT screen(320 × 240), backlit LCD.
Temperature	Transmitter:14°F~122°F(-10°C~50°C) Transducer:40°F~176°F(-40°C~80°C)
Humidity	0 to 99% RH,non-condensing

PHYSICAL SPECIFICATIONS

Transmitter	NEMA13 (IP54).			
Transducer		Encapsulated design, IP68; Standard cable length: 5m.		
Weight	Transmitte	er:approximately1.0kg.		
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Suitcase	Transmitter and Transducer	Pipe strips	Coupling compound	Tape Measure

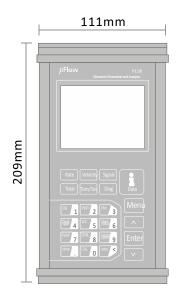
ABOUT P118i———INTERFACE AND SIZE

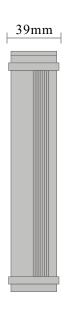
WIRING DIAGRAM



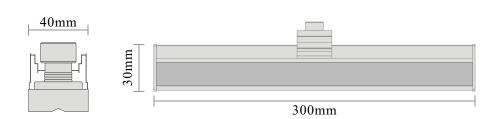
BOUT

Transmitter Dimensions



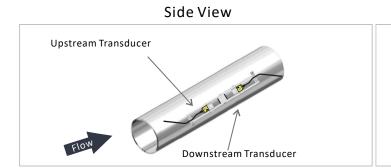


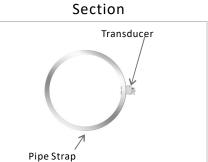
Transducer



ABOUT P118i TRANSDUCER INSTALLATION METHODS

V method measuring pipe size: 50mm-400mm



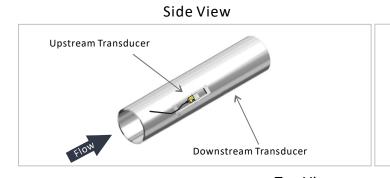


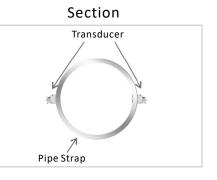
Top View

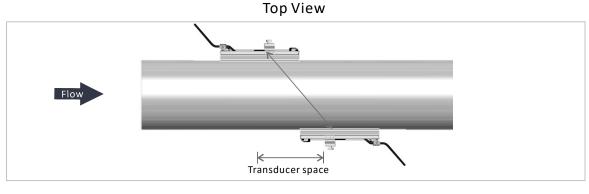
Flow

Transducer space

Z method measuring pipe size: 25mm-1200mm









ABOUT P118i-INSTALLATION SITE SELECTION

STRAIGHT LENGTH OF

Diffuser

Reduce

STRAIGHT LENGTH OF **UPSTREAM PIPING DOWNSTREAM PIPING**

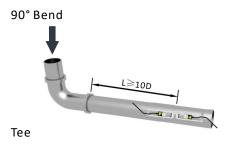
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

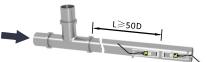
Choose a section of pipe that is always full of liquid, such as a vertical pipe with flow in the upward direction or a full horizontal pipe.

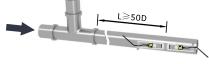
Ensure enough straight pipe length at least equal to the figure shown below for the upstream and downstream transducers installation.

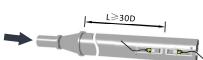
Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.

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.





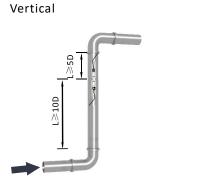




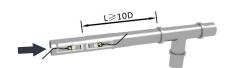






















MODEL DESCRIPTION

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 Internal lithium power supply: 10hours Pipe size range: 0.6"~48"(15mm~6000mm) Transducer: IP54, CP magnet portable transducer, 5m cable
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CODE OUTPUT

1	4-20mA/RS485/OCT Pulse/Relay
2(optional)	4-20mA/RS485/OCT Pulse/Relay, RTD Temp.input,Temperature: 32°F∼+140°F(0°C∼ +100°C)

CODE TYPE OF TRANSDUCERS

P010	P type magnet portable transducer Operating temperature:40°F~176°F(-40°C~80°C)
PH020 (optional)	PH type High temperature Clamp on transducer, 10ft (3m)cable Installation: Clamp on Outer Shell: stainless steel Measurement range: 1" ~ 48" (25mm ~ 1200mm) Temperature: -40°F ~ +302°F(-40°C ~ +150°C)

CODE TRANSDUCER CABLE LENGTH

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

CODE TRANSDUCER CABLE LENGTH

010	PH type of cable ,Standard 10ft (3m)
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CODE TYPE OF TEMPERATURE SENSOR

PT1000(optional)	PT1000 Temperature sensor (0°C~ +100°C)
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Standard Model: P118i-P010-016

Description: Portable~P118i~with~P010~transducers,~4-20 mA/RS485/OCT~Pulse/Relay,~5m~cable.

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