



Portable Ultrasonic Flowmeter P118i

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

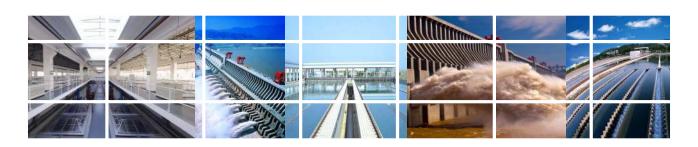
Nanshan District. Shenzhen CHINA Tel: 86-755-26745561

Fax: 86-755-26745333

E-mail: business@gentos.com.cn

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 Ω .
Outputs	Allalog output. 4 Zollia, Max 750 Sz.
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.
	RE CATIO READER SDHC Card











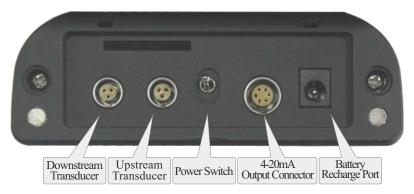
Coupling compound



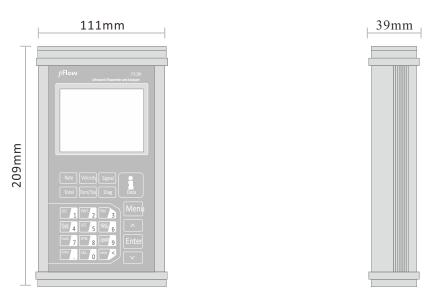
Card reader and SD card

ABOUT P118i———INTERFACE AND SIZE

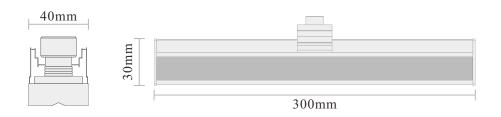
WIRING DIAGRAM



Transmitter Dimensions



Transducer

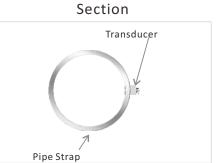


ABOUT P118i TRANSDUCER INSTALLATION METHODS

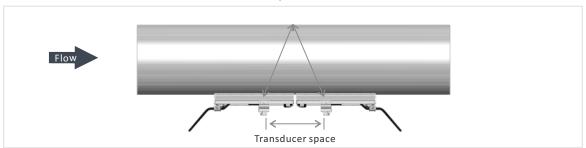
V method measuring pipe size: 50mm-400mm



Downstream Transducer

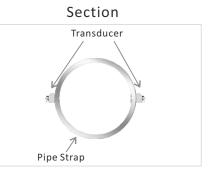


Top View

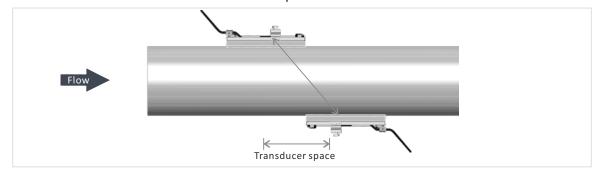


Z method measuring pipe size: 25mm-1200mm





Top View



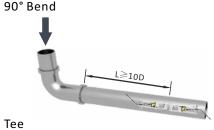


ABOUT P118i-INSTALLATION SITE SELECTION

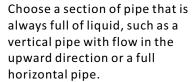
STRAIGHT LENGTH OF UPSTREAM PIPING

90° Bend

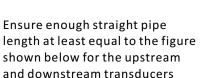
STRAIGHT LENGTH OF **DOWNSTREAM PIPING**







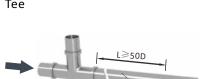
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:



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

installation.

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.





Diffuser





Reduce

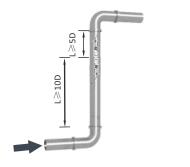




Valve



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 ~ 1200 mm) Temperature: $-40^{\circ}F \sim +302^{\circ}F(-40^{\circ}C \sim +150^{\circ}C)$

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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