

ABOUT P117 — FEATURES AND CASES



P117 Portable Ultrasonic Flowmeter enables the user to do flow measurement checks at many points in a flow process without the need for a permanent installation.

This universal transit-time meter features a dual-function push button interface, ergonomic handheld design and a beautiful 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 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, while the output of totalize pulse and frequency output are transmitted via relay and open collector.





PERFORMANCE SPECIFICATIONS

Flow range	±0.03 ~ ±20 ft/s (±0.01~ ±6 m/s)	
Accuracy	±1%	
Repeatability	0.3%	
Linearity	±1%	
Pipe Size	Clamp-on:1"~ 48" in(25mm~1200mm)	

FUNCTION SPECIFICATIONS

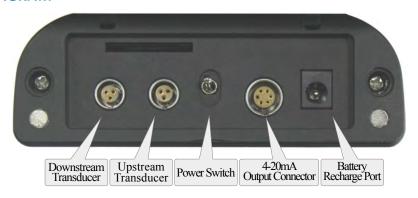
Outputs	Analog output: 4~20mA, Max 750 Ω.
SD card	Storage: 8GB; Max: 512 files; Interval: 1 ~ 60 seconds.
Power supply	Rechargeable Lithium Battery Power .
Keypad	Tactile Keys.
Display	3.5 inch TFT screen(320 × 240), backlit LCD.
	Transmitter(Ambient):14°F~122°F(-10°C~50°C)
Temperature	Transducer(Fluid):40°F~176°F(-40°C~80°C)

PHYSICAL SPECIFICATIONS

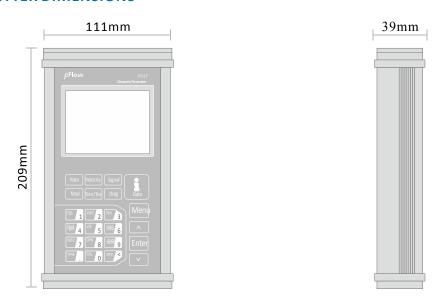
Transmitte	n NEMA13	(IP54).		
Transduce	r '	ated design, IP68; cable length: 5m.		
Weight	Transmitter:approximately1.0kg.			
MoHq	ALE		188 KHARA	SOHC Card SOHC Card SanJisk
Suitcase	Transmitter and	Pipe strips	Coupling compound	Card reader and



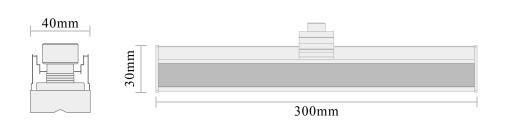
WIRING DIAGRAM



TRANSMITTER DIMENSIONS

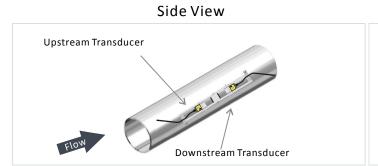


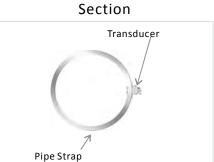
TRANSDUCER

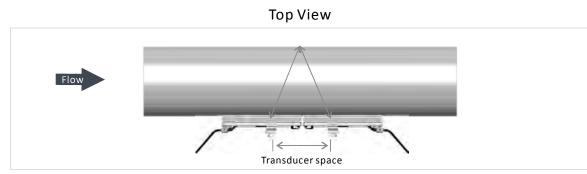


ABOUT P117 TRANSDUCER INSTALLATION METHODS

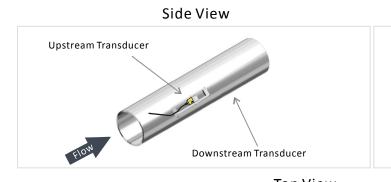
V method measuring pipe size: 50mm-400mm

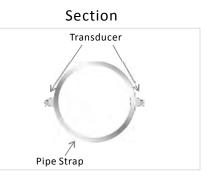


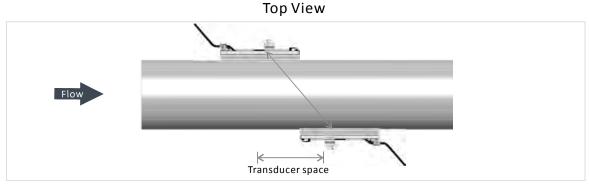




Z method measuring pipe size: 25mm-1200mm









INSTALLATION SITE SELECTION

STRAIGHT LENGTH OF **UPSTREAM PIPING**

Diffuser

STRAIGHT LENGTH OF **DOWNSTREAM PIPING**

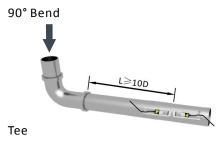
When selecting a measurement site, it is important to select an area where the fluid flow profile is fully developed to guarantee a highly accurate measurement. Use the following guidelines to select a proper installation site:

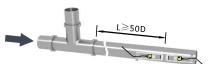
Choose a section of pipe that is always full of liquid, such as a vertical pipe with flow in the upward direction or a full horizontal pipe.

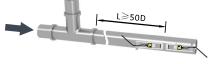
Ensure enough straight pipe length at least equal to the figure shown below for the upstream and downstream transducers installation.

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.





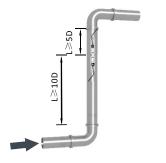




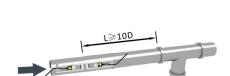






















MODEL DESCRIPTION

trasonic Flowmeter method: Handheld I high memory data logging, nemorize 512 files data. e: ±0.03 ft/s ~ ±20 ft/s (±0.01 m/s~ ±6 m/s) ±1% ity: 0.3%
ium power supply: 10hours ange: 1″~48″(25mm~1200mm) r: IP54, CP magnet portable transducer, 5m cable
ang

CODE OUTPUT

1 4-20mA/RS485

CODE TYPE OF TRANSDUCERS

P011	P type magnet portable transducer Operating temperature:40°F~176°F(-40°C~80°C)
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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: P117-P011-016

Description: Portable P117 with P011 transducers, 4-20mA/RS485, 5m cable.

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