P117 Portable Ultrasonic Flowmeter enables the user to doflow measurement checks at many points in a flow processwithout the need for a permanent installation.

This universal transit-time meter features a dual-functionpush button interface, ergonomic handheld design and abeautiful 3.5in TFT backlit digital display that significantlysimplifies setup and data collection.

Comparing with other traditional flowmeter or ultrasonicflowmeter, it has distinctive features such as high precision, high reliability, high capability and low cost, the flowmeterfeatures other advantages:

TVT technology designed.Less hardware components, low voltage broadband pulse transmission, low consumption power.Clear, user-friendly menu selections make flowmeter simpleand 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 isplay, while the output of totalize pulse and frequency output are transmitted viarelay and open collector.



pFlow

Flow:m3/h

20.135

205 Total:m3 NEG Total:m3 206.003 -26.168

ABOUT P117 – SPECIFICATION

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)

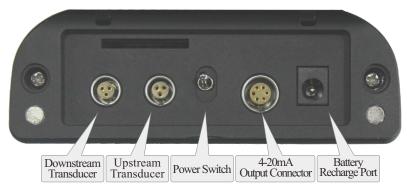
FUNCTION SPECIFICATIONS

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 (continuous operation of mainbattery 10 hours).	
Keypad	Tactile Keys.	
Display	3.5 inch TFT screen(320 × 240), backlit LCD.	
Temperature	Transmitter: $14^{\circ}F^{122}F(-10^{\circ}C^{50}C)$ Transducer: $40^{\circ}F^{176}F(-40^{\circ}C^{80}C)$	
Humidity	0 to 99% RH,non-condensing	

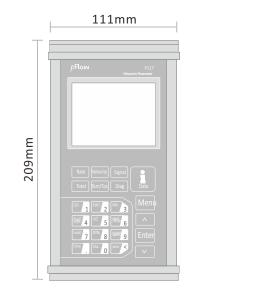
PHYSICAL SPECIFICATIONS

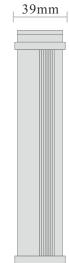
Transmitter	NEMA13	B (IP54).			
Transducer	Encapsu	Encapsulated design, IP68;			
	Standard	Standard cable length: 5m.			
Weight	Transmitter:approximately1.0kg.				
			Market State	SPIC Card EARID REARER SDHC Card EST SanDisk SanDisk	
Suitcase	Transmitter and Transducer	Pipe strips	Coupling compound	Card reader and SD card	

WIRING DIAGRAM

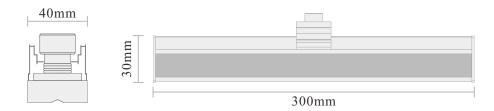


TRANSMITTER DIMENSIONS





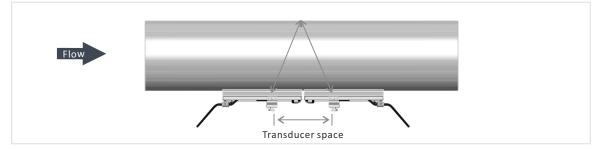
TRANSDUCER



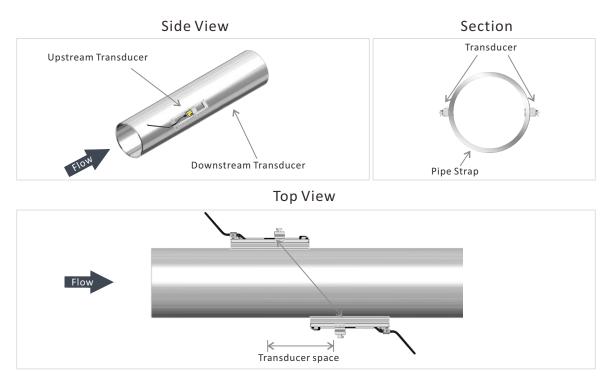
V method measuring pipe size : 50mm-400mm



Top View



Z method measuring pipe size: 25mm-1200mm



STRAIGHT LENGTH OF UPSTREAM PIPING

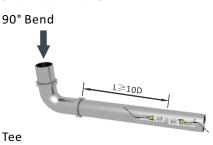
STRAIGHT LENGTH OF DOWNSTREAM PIPING

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.



















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MODEL	DESCRIPTION
P117	Portable Ultrasonic Flowmeter Installation method: Handheld 8G SD card high memory data logging, maximum memorize 512 days data. Flow Range: ±0.03 ft/s ~ ±20 ft/s (±0.01 m/s~ ±6 m/s) Accuracy: ±1% Repeatability: 0.3% Output: 4-20mA Internal lithium power supply: 10hours Pipe size range: 1"~48"(25mm~1200mm) Transducer: IP54, CP magnet portable transducer, 5m cable
CODE	TYPE OF TRANSDUCERS
P011	P type magnet portable transducer Operating temperature:40°F~176°F(-40°C~80°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: P117-P0	011-016

Description: Portable transducers, 5m cable.