

Ultrasonic Flowmeter

P117 (version 3.0.1)



ABOUT P117 FEATURES AND CASES



Product Introduction

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 inch TFT backlit digital display that significantly simplifies setup and data collection.

Comparing with other traditional flowmeters or ultrasonic flowmeters, it has distinctive features such as high precision, high reliability, high capability and low cost. In addition, the flowmeter features other advantages:

- ◆HD technology designed.
- ◆Fewer hardware components, low voltage broadband pulse transmission, and low power consumption.
- ◆Clear, user-friendly menu selections make flowmeter simple and convenient to use.
- ◆Provides daily, monthly and yearly totalized flow.
- ◆Positive and net flow totalizers operate in parallel with scale factor (span) and digital display, while totalizer pulse and frequency outputs are transmitted via relay and open collector.

Agriculture



Aquaculture



HVAC



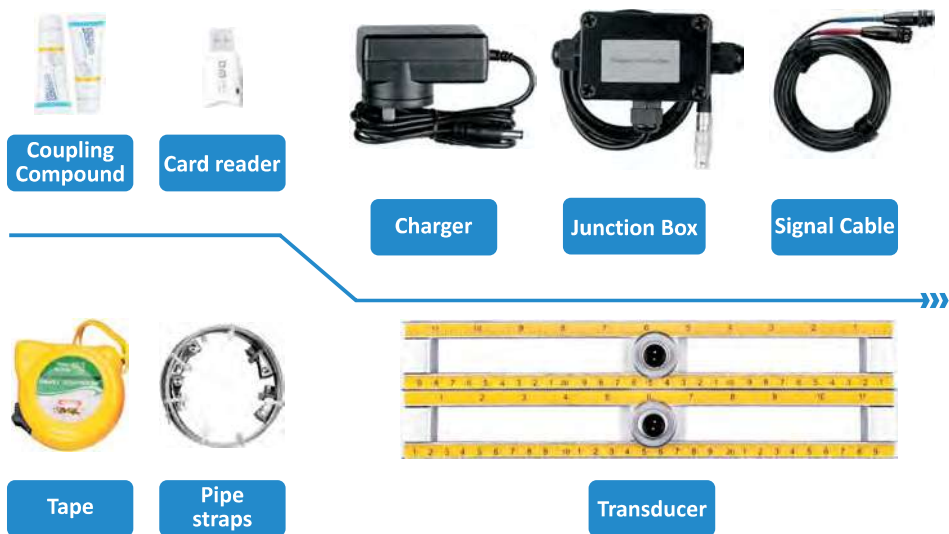
Power Plant



ABOUT P117 PRODUCT BUNDLE



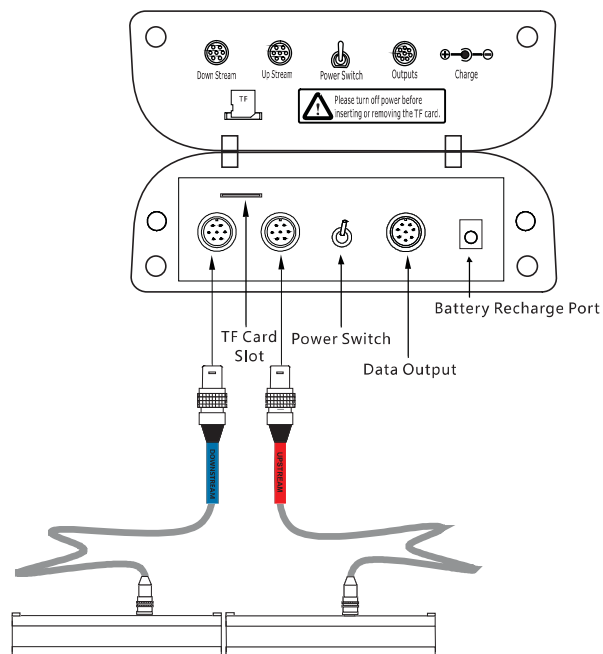
P117 Transmitter



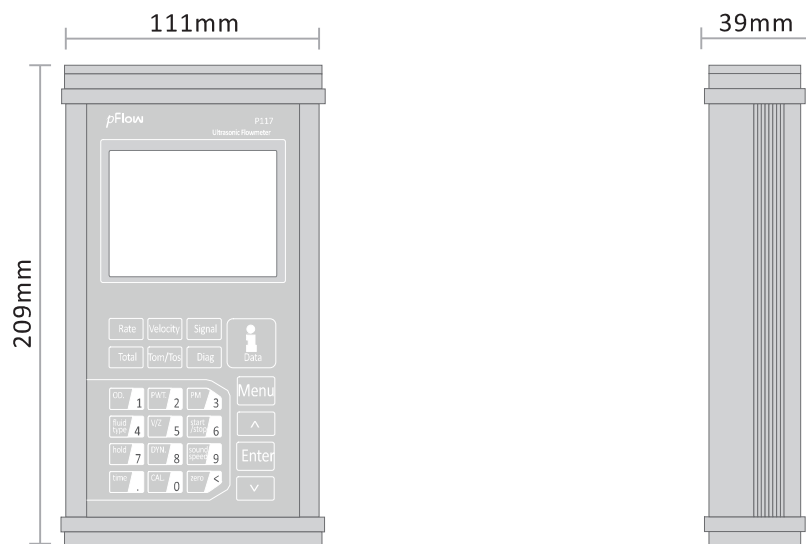
The P117 Ultrasonic Flowmeter is an advanced transit-time flowmeter designed with ARM chip technology and low-voltage wide-pulse sending technology. It offers high precision, reliability, and versatility. The flowmeter features a user-friendly interface with clear menu selections, supporting both U.S., British, and Metric measurement units. It supports multiple communication protocols, including FUJI and MODBUS, making it compatible with various systems. The device can store up to 1,000 files on a TF card with intervals as short as 1 second, providing extensive data logging capabilities. With a wide measurement range and high accuracy, the P117 is suitable for a variety of industrial applications. Its robust design and low power consumption make it an ideal choice for reliable flow measurement.

ABOUT P117 INTERFACE AND SIZE

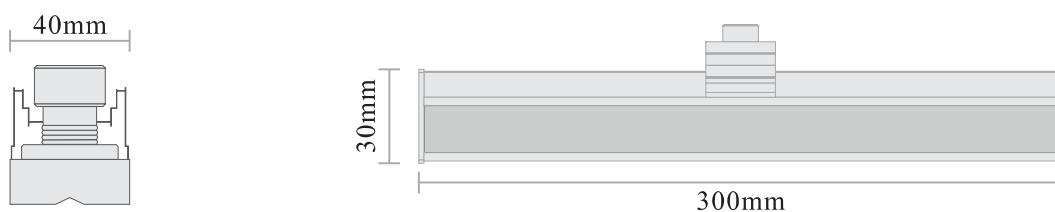
WIRING DIAGRAM



PRODUCT DIMENSIONS



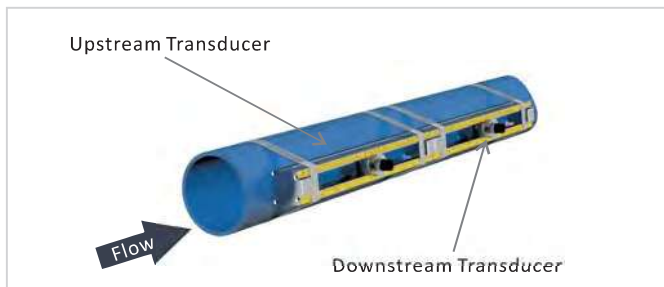
TRANSDUCER DIMENSIONS



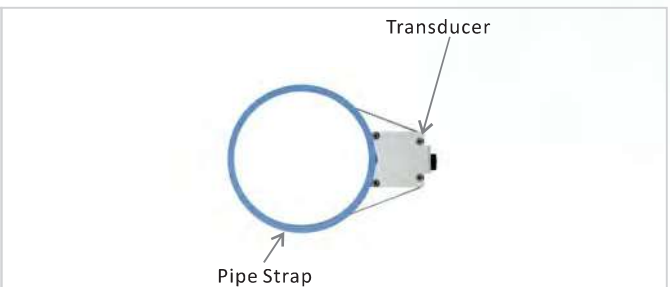
ABOUT P117 TRANSDUCER INSTALLATION METHODS

V method measuring pipe size : 25mm-400mm

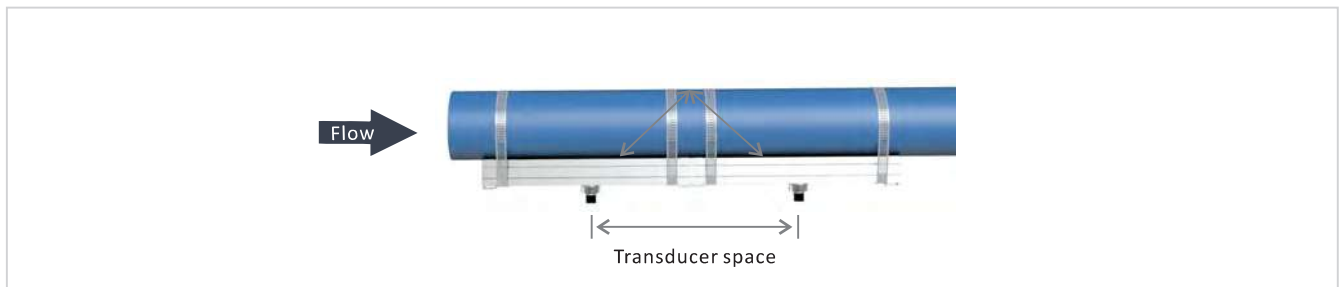
Side View



Section

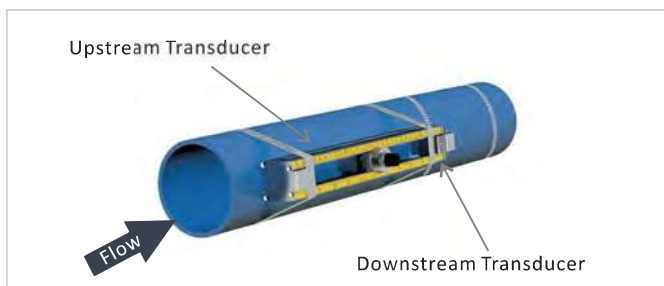


Top View

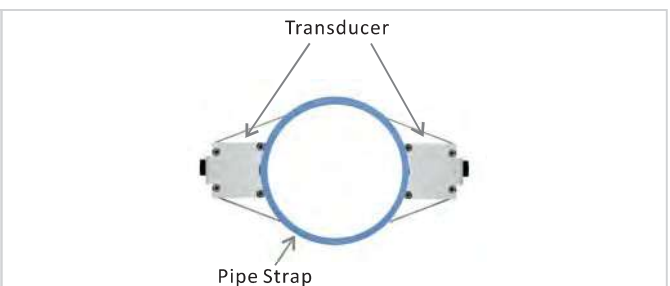


Z method measuring pipe size: 100mm-1200mm

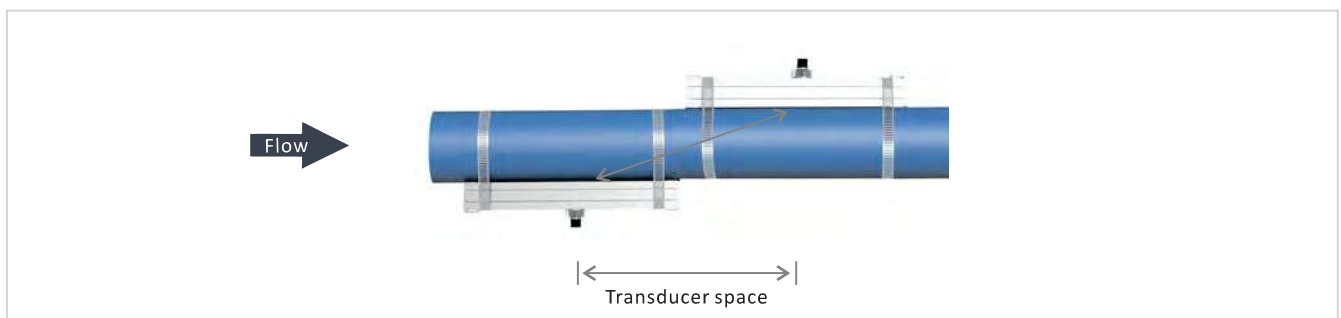
Side View



Section



Top View



ABOUT P117

INSTALLATION SITE SELECTION

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.

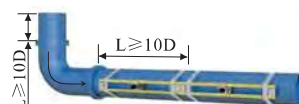
Ensure that the pipe surface temperature at the measuring point is within the transducer temperature limits.

Consider the inside condition of the pipe carefully.

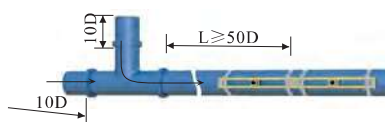
If possible, select a section of pipe where the inside is free of excessive corrosion or scaling.

STRAIGHT LENGTH OF UPSTREAM PIPING

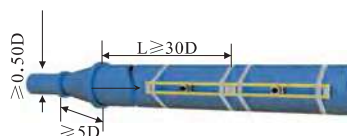
90° Bend



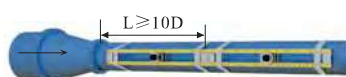
Tee



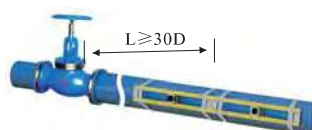
Diffuser



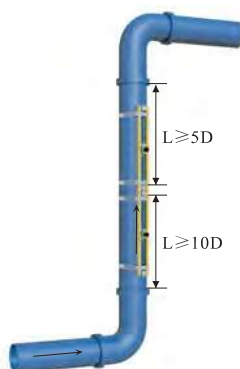
Reduce



Valve



Vertical



STRAIGHT LENGTH OF DOWNSTREAM PIPING

