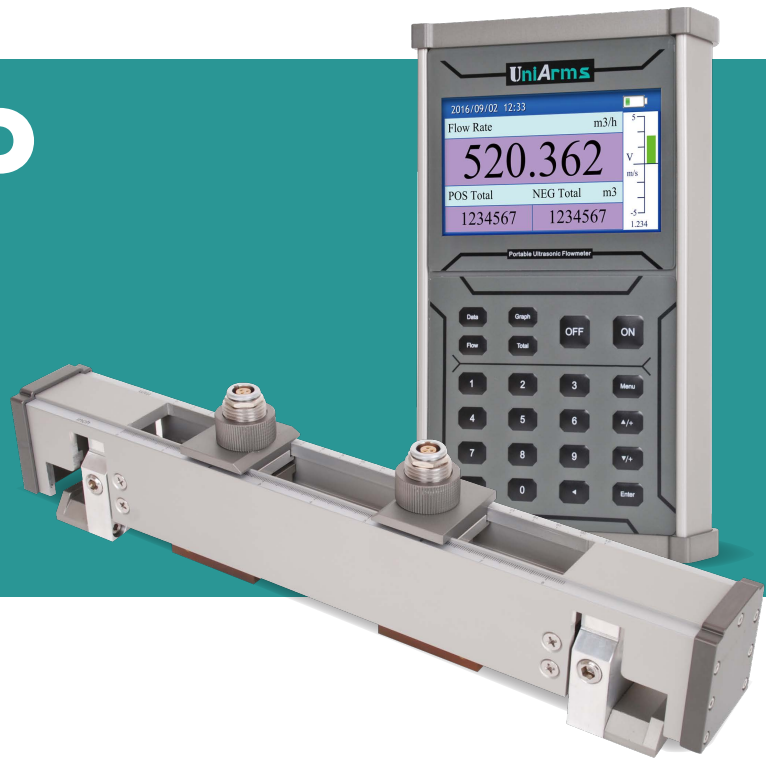


# UA108P

## Portable Ultrasonic Flowmeter



UA108P portable clamp on ultrasonic flowmeter is ideal tool for flow measurement checks at many flow points offering long or short term monitoring, data logging and existing meter verification.

It comes with a sturdy and environmental protection case, transmitter metal case is provided with high wear and corrosion resistance, easy to set up mounting racks with our unique design transducer, ergonomic handheld design and a beautiful backlit color digital display simplifies setup and data collection, a rechargeable lithium-ion battery could support 12 hours' continuous operation.

High-powered ultrasonic pulse with improved signal processing, It requires just one set of transducers for a wide range of pipe sizes from DN25~DN5000. It is also very easy to use this device for data logging. Data is saved to a SD card and transferred to external evaluation system. 2G SD memory card promises high capacity data logging. All these makes UA108P the superior companion for daily work of water suppliers, hydrologists and engineering offices.

## Features & Benefits

- Accuracy : 0.5% of measured value ( $\pm 1.6\text{ft/s} \sim \pm 16\text{ft/s}$ );
- Repeatability: 0.15%;
- Revolutionary solution easy handling for Clamp on transducers;
- All material in industrial grade to ensure long time work;
- Wide operating temperature range  $-40^{\circ}\text{F} \sim +122^{\circ}\text{F}$  ( $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$ )
- Rechargeable lithium-ion battery with continuous operation for 12 hours;
- 2G SD card for high capacity data logging.

## Specifications

### Portable Ultrasonic Flowmeter

- Flow Range:  $0.1 \sim \pm 40\text{ft/s}$  ( $0.03 \sim \pm 12\text{m/s}$ )
- Repeatability: 0.15%
- Accuracy:  $\pm 0.5\%$  ( $\pm 1.6\text{ft/s} \sim \pm 16\text{ft/s}$ ) ( $\pm 0.5\text{m/s} \sim \pm 5\text{m/s}$ )
- Pipe Size Range:  $1'' \sim 200''$  ( $25\text{mm} \sim 5000\text{mm}$ )
- Keyboard: 22 touch keys
- Display: 4.3 inch TFT LCD.
- Power supply: rechargeable Lithium Battery Power ( continuous operation of main battery 12 hours ).
- Transmitter enclosure: IP65, die-cast aluminum machined enclosure
- Output: 4~20mA
- Clamp on transducer, Operating temperature:  $-40^{\circ}\text{F} \sim +248^{\circ}\text{F}$  ( $-40^{\circ}\text{C} \sim +120^{\circ}\text{C}$ )
- Cable length: Standard 16ft (5m)

## Carrying case



## Installation example



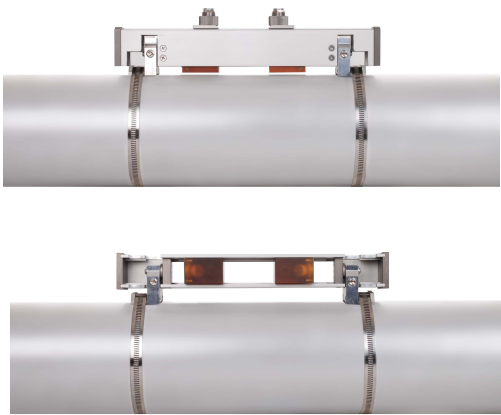
## Transmitter Highlights

We choose high quality material to develop our transmitter case with special processing treatment providing the benefits of better wear resistance and insulativity. Dust-proof design protects the transmitter from dusty environments.

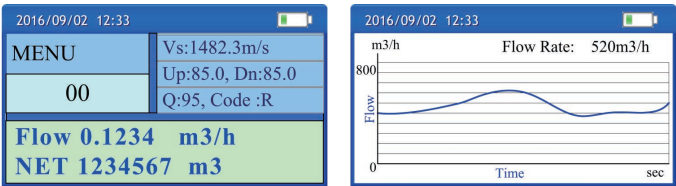


## Transducer Highlights

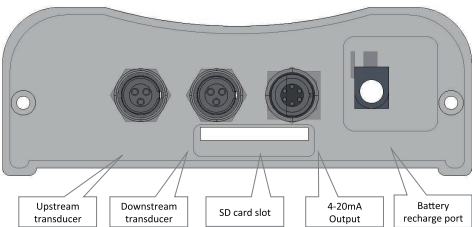
The UniArms clamp on transducer with its robust industrial construction and regreasing concept provides a revolutionary solution for easy handling.



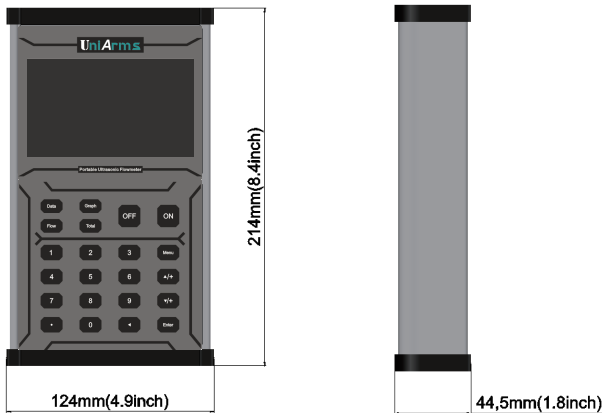
## User Friendly Interface



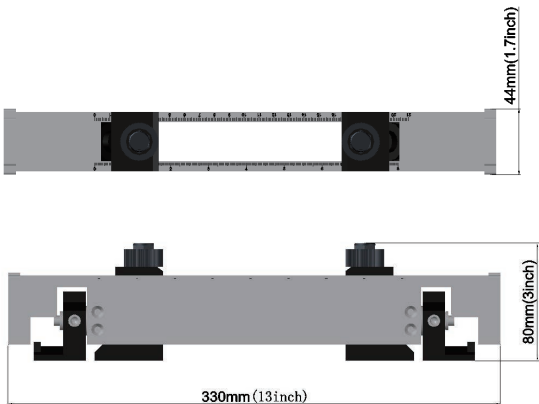
## Wiring Connection



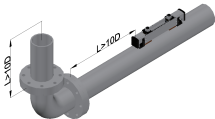
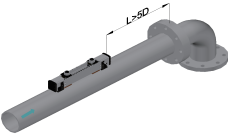
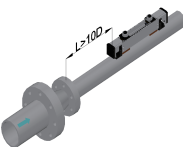
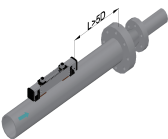
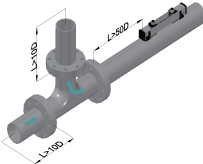
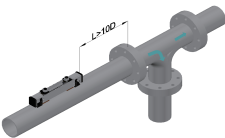
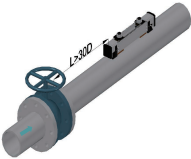
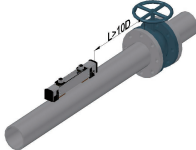
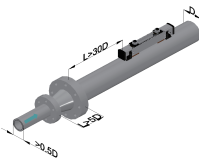
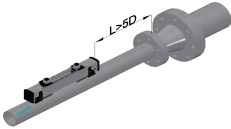
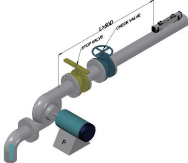
## Transmitter Dimension



## Transducer Dimension



Measurement site selection

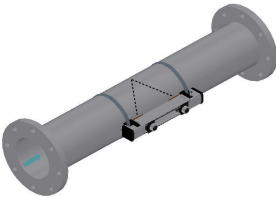

Name	Straight length of upstream piping	Straight length of downstream piping	Name	Straight length of upstream piping	Straight length of downstream piping
90° bend			Reduce		
Tee			Valve		
Diffuser			Pump		

Transducer Mounting Space Requirement

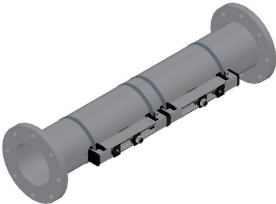
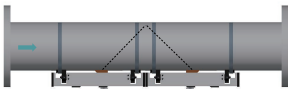
V Method Transducer Spacing

The V method is considered as the standard method. It usually gives a more accurate reading and is used on pipe diameters ranging from 25mm to 400mm (1~16" ) approximately.

DN25~DN125

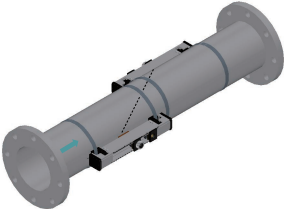
Side View	Top View
	

DN125~DN300

Side View	Top View
	

Z Method Transducer Spacing

The Z method is able to measure on pipe diameters ranging from 100mm to 3000mm (4" ~120" ) approximately. Therefore, we recommend the Z method for pipe diameters over 300mm (12" ).

Side View


Top View
