



FCCE

**Product Features · Use**

- Pipe installation - No downtime / No pipe cut / No water leakage / No blocking  
Maintenance at any time, greatly reducing installation and maintenance costs. No damage, no blockage, no leakage or pressure problems.
- Global power adapter attached to the device can be directly connected to the general power supply, plug and play.
- Easy to install. For two-way flow measurement, no need to consider liquid flow during installation. Patented algorithm technology to enhance anti-interference ability. Waterproof probe.
- Optional mounting rail provided, the probe is placed in range, easy to accurately install with fixed, stable detection results.

## Conveniently Attach Probe To Pipe

**No downtime · Avoid cutting pipes  
No leaks · No blockages**

Installing our Ultrasonic flowmeter means that maintenance can be done at any time. It dramatically reduces installation and maintenance costs as the pipe can remain as it is. This means no damage to the tube and saves you from causing leakage and pressure problems.



**Patented Design All plastic high resistance probe with lattice grid**

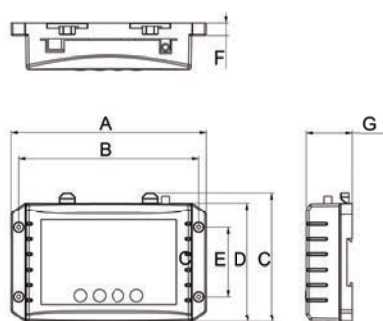
- All plastic buckles can be glued or welded, which greatly improves probe installation, convenience, and reliability. This solves past issues where the strap installation was easily displaced by temperature and vibration.
- Patented buckle fits close to pipelines, greatly improves the accuracy of traffic detection, with stable detection results.
- The only all-plastic buckle on the market allows probes and buckles to be used for long periods even in the electronics, chemicals, environmental protection, and other chemical-filled environments.



## Standard Specs

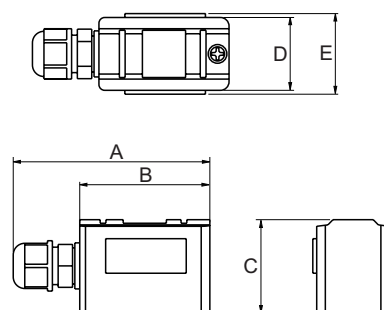
Installation method	Tube clamps	Power consumption	< 2W
Measurement principle	Time differential	Transient flow	Instantaneous flow, flow velocity, time differential display
Flow rate range	± 0.1 ~ 20 m / s	Cumulative flow	Positive and negative cumulative, net flow display
Measurement accuracy	<±2 %	Units	Metric or English units
Response time	<1 second	Power	9~30VDC 100-240 50 / 60Hz AC transformer
Resolution	0.0001 m/s	Display	128 x 64 LCD backlight display
Wired communication	Analog output 4-20 mA Modbus RS485 Two-line	Security	Keyboard lock, power-loss data protection
Probe-to-host distance	10 m	Operation button	4 touch button
Temperature measurement	Two sets of external PT1000	Shell	ABS plastic, 145 x 90 x 45 mm
Temperature range	-100 ~ 300 ° C with 0.1 ° C resolution	Applicable pipe material	Cast iron, carbon steel, stainless steel, PVC pipe and other
Device working temperature	-25~70°C	Applicable pipe diameter (mm)	50mm~200mm(standard equipment)
Applicable fluid	Clean water, oil or chemical with minor impurities	Probe waterproof rating	General probe IP61 Glue probe IP65 Waterproof resistance probe IP68
Wall temperature	Standard probe: 0~80°C High temperature probe: 0~150°C		

## Size



A	B	C	D	E	F	G
149.5	137.8	98.3	90.5	52.4	9.5	34.9

Unit : mm



A	B	C	D	E
68.3	45.2	32.2	25.3	42.6

Unit : mm

## Compare with other measurement principles on the market

	Variable area	Paddle wheel	Electromagnetic	Non-invasive ultrasound
Pressure drop	Low	Medium	No	No
Non-destructive installation	No	No	No	Yes
Accuracy	Medium	Medium	Highest	Highest
Measure bidirectional flow	No	Yes	Yes	Yes
Blockage potential	Will block	Easy to block	Will not block	Will not block
Measurable fluid	Gas \ Liquid	Liquid	Conductive liquid	Liquid (Including organic matter)
Price	Relatively low price for smaller pipes	Low price The price increases with the diameter	High price The price increases with the diameter	Medium price Price does not increase with the diameter