



US Series

Clamp-on Ultrasonic Flow Meter



Size available : DN100~DN600 (4"~24")

PRODUCT FEATURES

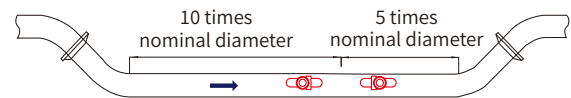
- Time transit measurement principle
- Bi-Directional flow measurement
- Real-time display of flow-rate, total and forward/reverse accumulation
- No moving part; No strainer required
- Portable, lightweight and easy to use
- Non-invasive, providing ;
 - no flow disturbance
 - no pressure loss
 - no process interruption
 - no water contact
- Pulse, 4-20mA, RS-485/Modbus output
- Data protection with lockable keypad
- Offline data protection for last accumulation
- Error message-No signal, weak signal, empty pipe, incorrect set up, communication error, etc.

APPLICATIONS

- Industrial/ Commercial/ Utility
- Water network management
- Flow surveys at site
- Pump flow measurement

INSTALLATION REQUIREMENT

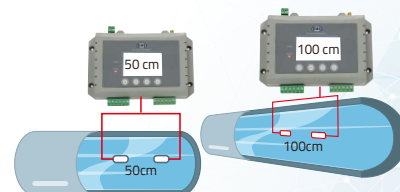
1. Before installing the transducers, clean the pipe surface and paint the coupling agent properly.
2. Requirements for straight pipe upstream/ downstream: 10 x DN/ 5 x DN.



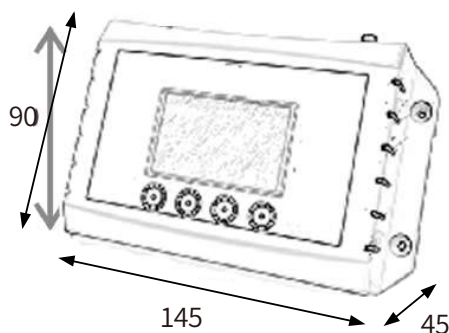
3. The pipe shall be full of water while operating.



4. The distance of the transducer should follow the calculation of the converter.



DIMENSION unit: mm



DISPLAY & INDICATION

Display	English, 128 x 64 LCD display
Operation	4 buttons
Display Unit	Totalizer : m ³ , L, gal, igl, mgl, cf, bu, ob (Optional) Flow rate : m ³ /hr (default), Sec, Min, Hour, Day (Optional)

DIMENSION & MATERIAL

Dimension	145 x 90 x 45 (mm)	
Material	Case	ABS
	Pipe	Cast iron, Stainless steel, Carbon steel, Aluminum, Brass, Glass Fiber, PVC, PTFE, Rubber, other
	Lining	No liner, PTFE, Titanium, Enamel, Plastic, PE, other

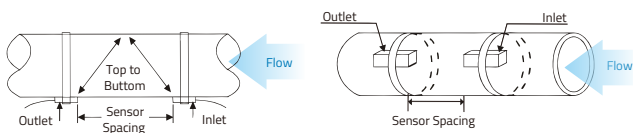
TECHNICAL DATA

Parameters	Specifications
Diameter	DN100 (4 ")~ DN600 (24 ")
Ambient Temperature	Converter : -20°C to 60°C / Transducer : -30°C to 90°C
Installation	Clamp-on
Measuring Principles	Time-Transit
Flow Rate Range	±0.2 m/s ~ 12 m/s
Accuracy	±2%
Response Time	≤ 1 sec
Resolution	0.0001 m/s
Digital Output	RS-485 (Modbus RTU), Pulse
Analogue Output	4-20 mA
Communications Distance	10 m
Protection Class	Converter IP65 / Transducers IP68
Power Supply	12 VDC
Safety	Lockable keypad, offline data protection

INSTALLATION DIAGRAM

Type V

Size range from 4" to 12"



Type Z

Size range from 12" to 24" or pipe thickness ≥ 15mm

