

Transit-time Ultrasonic Flowmeter

BSUF-TTCP



LIQUID



OVERVIEW

Operation

The BSUF-TTCP wall-mount Clamp-on Ultrasonic Flow meter family provides abundant capabilities for accurate liquid flow measurement from outside of a pipe. It utilizes state-of-the-art technologies on ultrasonic transmission /receiving, digital signal processing and transit- time measurement. The proprietary signal quality tracking and selfadapting technologies allow system to optimally adapt to different pipe materials automatically.

Application

- Water, including hot water, chilled water, sea water etc.
- Secondary sewage, waste treatment
- Oil, including lubricating oil, diesel oil, fuel oil etc.
- Chemicals, alcohol, acids
- Solvents
- HVAC, energy systems , food and pharmaceutical industries

Features

- Simple Installation
- High Accuracy
- Noninvasive, no moving parts, no pressure drop, no maintenance
- Wide measuring range
- Suitable for all commonly used pipe materials
- Signal quality tracking and self-adjusting capabilities
- Automatically match transducer to pipe materials
- Velocity, volumetric and totalized flow display
- Easy to use and set up. Self-explanatory menu-driving programming, Reynolds number enter option
- Rich input and output functionalities
- In fact, most any liquid containing less than 5% total suspended solids (TSS) or aeration or 10000 mg/l
- Bi-directional. Totalizer for net, positive and negative flow display

OPERATING DATA

Temperature	-40...90°C -40...160°C with HT sensors
Accuracy	±1.0 %
Repeatability	±0,2 %
Response Time	0,5 sec
Weight	3 kg
Cable	6m standard , 300m max.
Display	LCD with backlight, 2x20 letters
Datalogger	500000 data recording
Enclosure	IP66 for display IP68 for transducers
Pipe Requirement	8D , if a pump is near 15D (D : Pipe diameter)
Language	Turkish, English
Memory	Data logger (optional)

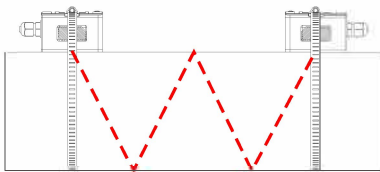
MEASURING RANGES

Velocity	0...10 m/s (bi-directional)
Line Sizes	DN15...100 for small sensor DN50...700 for middle sensor DN300...6000 for large sensor

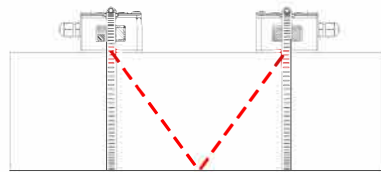
ELECTRICAL DATA

Current Output	4...20 mA
OCT Output	Pulse
Impedance	0...1000 ohms
Power Supply	10-28 VDC @3VA max. 115/230 VAC 50/60 Hz 15% 6VA max.
Communication	RS485 Modbus RTU, USB

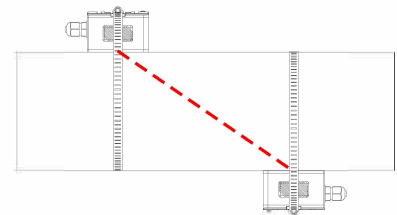
INSTALLATION



W-Mount



V-Mount



Z-Mount

ORDERING

BSUF			Ultrasonic Flowmeter
Type	TTCP		Wall-Mount Clamp-on
Sensor		BS1	Small sensor DN15...DN100
		BM1	Middle sensor DN50...DN700
		BL1	Large sensor DN300...DN6000
		BHTS1	Small sensor, High temp.
		BHTM1	Middle sensor, High temp.
		001	Small and middle sensors
		002	Middle and large sensors
		003	Small, middle and large sensors
	011	Small and middle high temp.sensors	
Cable Length		XX	Cable length (please specify as unit is meter)