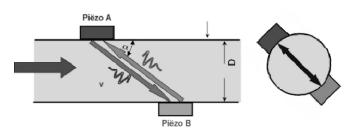
FLOW MEASURMENT Ultrasonic Flowmeter Tapped Insertion Wall Mounted PARASONIC 153-UTW



INTRODUCTION

SBEMs PARASONIC series of ultrasonic flow meters use the transmit time differential method as the measurement principle to measure the flow of liquid in closed pipes. The transit-time technique uses a pair of transducers with each transducer sending and receiving coded ultrasonic signals through the fluid. At zero flow, both transducers receive the transmitted ultrasonic signals at the same time, i.e. without transit time delay When the fluid is flowing, signal transit-time in the downstream direction is shorter than in the upstream direction; the difference between these transit times is proportional to the flow velocity.



SBEMs PARASONIC series uses a flexible design concept to provide easy handling and optimum utilization.

BENEFITS/HIGHLIGHTS

- Flexible design Concept
- Modular design offers better flexibility and ease Of operation with high degrees of efficiency
- Accurate, Cost-Effective Measurement
- Advanced digital signal processing and superior Sensor design offer economical and reliable Flow measurement
- No Process Interruption
- PARASONIC hot tapped insertion sensors are capable of quick Retro-fit at any point in the process allowing easy Flow measurement and troubling shooting
- Wide Application Range
- PARASONIC series is suitable for a wide range of pipe Sizes and materials including lined pipes for Both conductive and non-conductive liquids.

PARASONIC 153 WALL MOUNTED CONVERTER



- 85 230 VAC/ 24VDC
- Accuracy-1%
- 2 Line Backlight LCD
- Quick access with 4x4 key-board
- Relay, pulse and analog output
- Temperature (P100) and Analog Input for heat flow and pressure measurement
- Data transfer to PC using RS485
- Compatible with insertion and clamp-on Sensors

PARASONIC 153 SENSORS



*For Cement pipes and smaller installation spaces please contact HO Area of Expertise

- Potable Water
- Deionized / deminerilized water
- Cooling and heating water
- Broad range of hydrocarbons
- Purified Water
- Waste Water
- Sewage water
- Discharge Water

SPECIFICATIONS FOR WALL MOUNTED CONVERTER

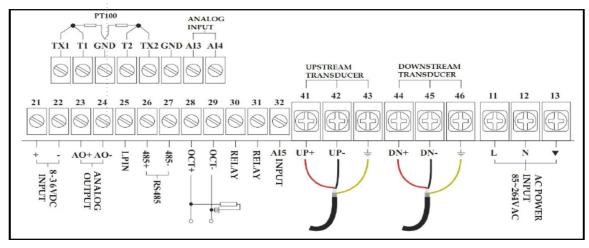
Power Supply	Std85-230VAC; Optional -24VDC
Measured Values	Volumetric Flow, Flow Velocity, Flow Direction, Speed of Sound, Quality of measured signal
Flow Velocity	0-32m/s bi-directional
Accuracy	±1%*
Repeatability	0.3%
Sensors	Tapped insertion
Display	2Line backlight LCD
Keyboard	4X4 Numeric Keyboard membrane
Pipe Materials	Mild Steel/Carbon Steel, Stainless Steel, Cast Iron, Ductile Iron
Outputs	4-20mA/0-20mA; Relay output; Open Collector Frequency / Pulse output
Communication	Optional : RS485 /RS232 with MODBUS (ASCII or RTU) / HART
Inputs	Up to 3 Analog input channels and Up to 2 channel 3Wire compensated Pt100
Data Logging	Built-in or optional PC based
Data logging Memory	2GB (Standard) ,8GB & 16GB (Optional)
Protection	IP65

Sensors

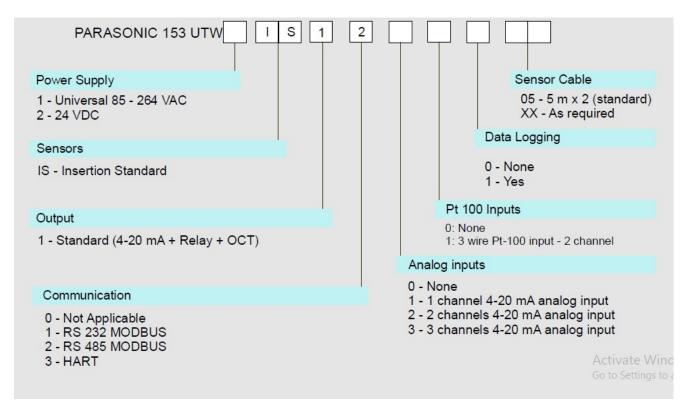
Туре	Direct Insert (IS)
Pipe Diameter(mm)	DN80 – DN2300
Materials	Stainless Steel
Frequency	1MHz
Hole Size	19mm Diameter
Length (mm)	186
Temperature	-40 to 160 °C
Protection	IP 68
Space required	>550 mm
Cable(m)	5m standard with each transducer

*Accuracy depends on installation, pipe materials, size and lining. Consult HO for corroded or lined pipes.

Wiring diagram with standard RS485 communication interface and one analog input channel



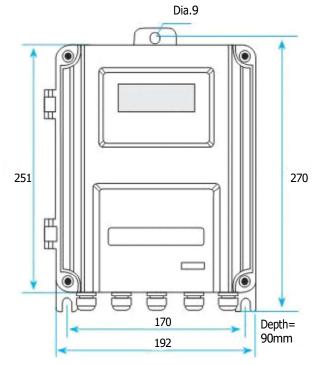
ORDERING CODE



Example of Model Code Selection for Wall mounted Ultrasonic Flow Meter with Tapped insertion sensor: Model Code: 153UTW 1 IS 10000 05

The above model code specifies that the Ultrasonic Flow Meter 153 UTW with wall mounted Indicator-converter operates on 85 to 264 VAC power supply, Sensors are standard insertion type, with standard output of 4-20 mA, Relay and pulse output, RS 485 Communication interface and with sensor cable of 5 m with each sensor/ transducer

MECHANICAL DIMENSION



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