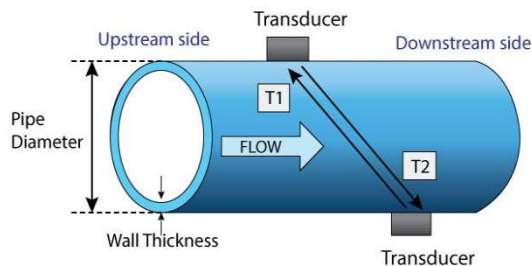


INTRODUCTION

The SBEMs PARASONIC series of ultrasonic flow meters utilize the transit-time differential method to measure the flow of liquid in closed pipes. This technique involves two transducers, each transmitting and receiving coded ultrasonic signals through the fluid. When there is no flow, both transducers receive the ultrasonic signals simultaneously, meaning there is no transit time delay. However, when fluid is flowing, the signal travel time in the downstream direction is shorter than in the upstream direction. The difference in these transit times is directly proportional to the flow velocity.



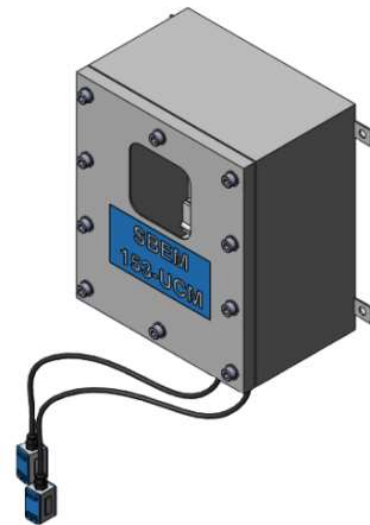
SBEMs PARASONIC 153 UCM series uses a Compact & flexible design concept to provide easy handling and optimum utilization.

FEATURES

- Compact Size
- Flexible Design
- Accurate, Cost-Effective Measurement
- Wide Application Range
- Installation: PARASONIC clamp-on sensors can be easily installed at any point in the process for flow measurement and troubleshooting.
- Safety Protection: Enhanced safety features for ultrasonic flow meter applications.

APPLICATIONS

- Drinking Water Supply
- Water Distribution
- Power
- Steel Plant
- Metallurgy
- Energy monitoring and efficiency



SPECIFICATIONS

- Mounting : Panel Mounting
- Accuracy : $\pm 1\%$ of FS
- Signal Output : 4-20mA + 1 Way Relay + 1 Way OCT (Standard)
- Communication Interface : Standard RS485 (MODBUS)
- Input Panel Power Supply: 230VAC
- 153 UCM Module: 230VAC or 24VDC
- Line Size : Suitable for 25 to 6000mm
- Flow Velocity : 0 to 7m/s
- Power Consumption : 1.5W
- Display : LCD Type, 4-key operation for easy configuration and control.
- Protection Class : IP65 (Panel Mounting)
- Material : MS (Mild Steel)
- Sensor Cable Length : 5m *2 (Standard) or Higher Length Contact HO
- Humidity : 85% RH
- Operating Temperature : 0 to 60°C

SENSORS



Small (S-1)



Medium (M-1)



Large (L-1)

Small (S-1) for pipe sizes 25mm-100mm

Medium (M-1) for pipe sizes 50mm-700mm

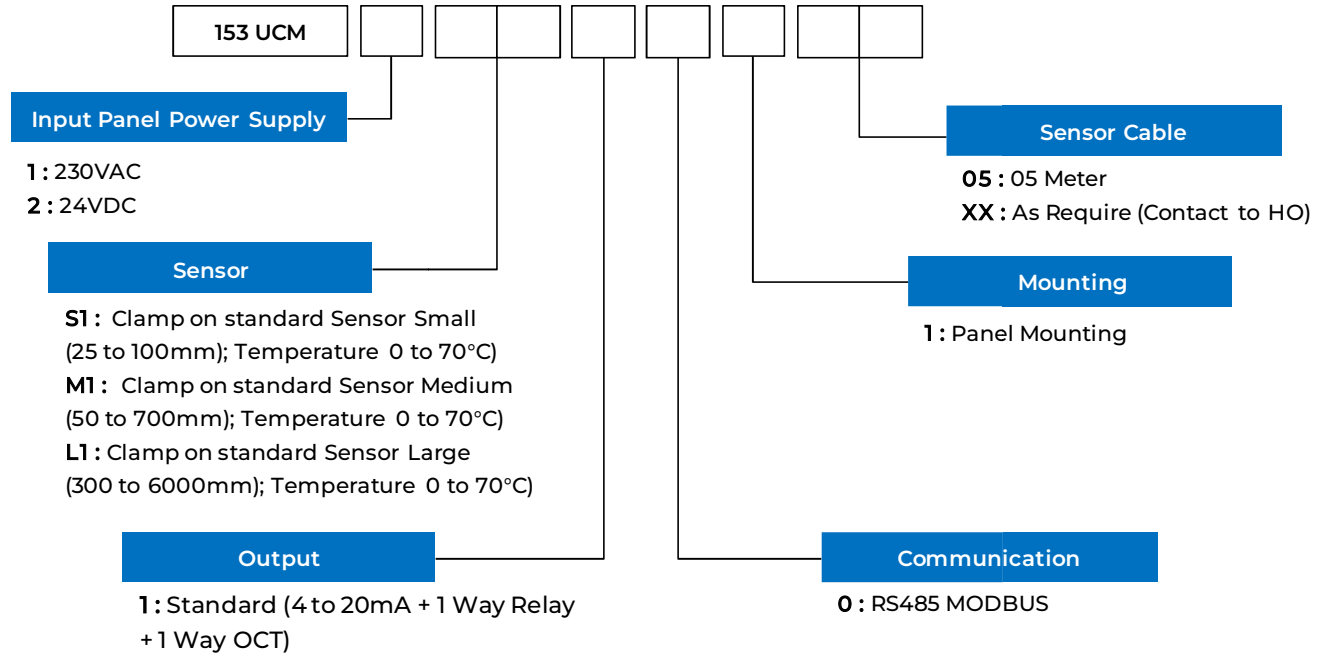
Large (L-1) for pipe sizes 300mm-6000mm

SPECIFICATIONS FOR SENSORS

Parameter Name	Standard Size (S-1)	Small	Standard Size (M-1)	Medium	Standard Size (L-1)	Large
Diameter (mm)	DN25 to DN100		DN50 to DN700		DN300 to 6000	
Material	ABS		ABS		ABS	
Installation	V, W		V, Z		Z	
Temperature*	0 to 70°C		0 to 70°C		0 to 70°C	
Dimensions	45×25×32mm		64×39×44mm		97×54×53mm	
Cable Length (Standard)	5m *2 Nos.		5m *2 Nos.		5m *2 Nos.	

Note: * A high temperature application requires higher temperature sensors (contact to HO).

ORDERING CODE



MECHANICAL DIMENSIONS

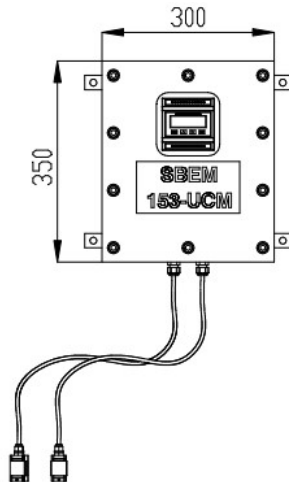


Figure: Front View

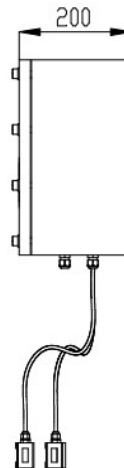


Figure: Side View

***Continuous development may necessitate changes without notice

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