Parasonic 153 UIF
Ultrasonic Flow Meter Inline Type

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INTRODUCTION

The Ultrasonic Inline Flow Meter is an accurate and reliable solution for measuring the flow rate of Water in pipelines. Using advanced ultrasonic technology, the flow meter delivers accurate, real-time flow measurements without disrupting the flow of liquids. Available in both powered and battery-operated versions, it offers versatility for various operational needs, with the battery version being ideal for remote or hard-to-reach locations. The flow meter operates on the transit-time differential principle, where ultrasonic signals are transmitted and received by transducers to calculate flow velocity. By measuring the difference in transit times between upstream and downstream signals, it accurately determines the flow rate. This technology ensures efficient and consistent fluid management, making the Ultrasonic Inline Flow Meter a valuable tool for industries such as water treatment and Drinking Water Supply.

FEATURES

- Available in Battery as well as Powered
- Telemetry Communication Enabled
- Long Battery Life
- Suitable for Remote area
- Temperature Measurement (BTU Energy Meter) Option available

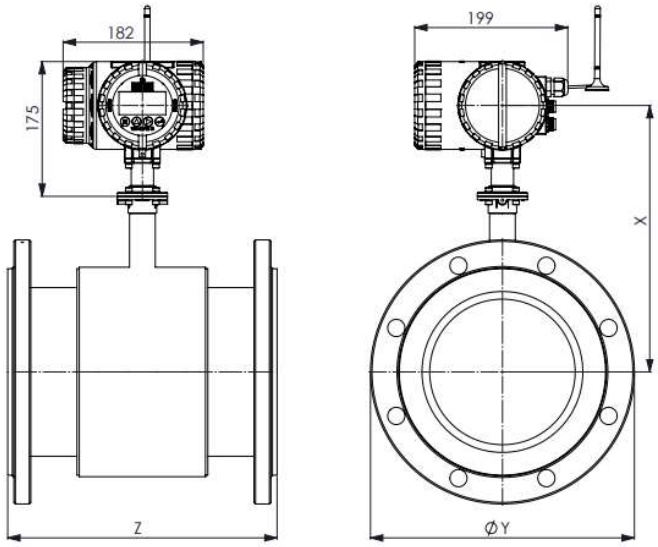
AREAS OF APPLICATIONS

- Drinking Water Supply
- Water Treatment Plant (WTP)
- Water Resource Management
- Agriculture/ Irrigation
- Overhead Tanks
- HVAC(BTU Energy Meter)

SPECIFICATIONS

Parameter Name	Parameter Description
Line Size	DN 32 to DN 600* (Higher Sizes available on request)
Accuracy	±1% of Reading
Power Supply	24VDC or 3.6 V lithium Inbuilt battery
Battery Life	5 Years(Under Factory condition)
Communication Output	GSM/GPRS 4G with 2G fall back communication or RS485 Modbus RTU
Output (For 24VDC Supply Model Only)	4-20mA DC for Flow rate or Pulse (Open Collector Type) for Totalized Flow
Mobile / Configuration APP Interface	Mobile / Parameter Configuration APP Interface via Bluetooth
Display	8 digit Totalized Flow display, 5 digit instantaneous Flow display
Data logging	Available (on request)
Measuring pipe	Carbon steel / stainless steel
Process Connections	EN Standard PN6 / PN10 / PN16 Flange
Ambient Conditions	0 to 60°C
Humidity	≤80%RH
Ingress Protection Wetted Sensor	IP68
Ingress Protection Integral Version	IP67

MECHANICAL DIMENSIONS



ORDERING CODE

153 UIF | | | | | | | | | | | | | | |

Power Supply
2 : 24VDC / Solar Powered
3 : Inbuilt Battery

Sensor Size*

0032 : DN 32	0200 : DN 200
0040 : DN 40	0250 : DN 250
0050 : DN 50	0300 : DN 300
0065 : DN 65	0350 : DN 350
0080 : DN 80	0400 : DN 400
0100 : DN 100	0450 : DN 450
0125 : DN 125	0500 : DN 500
0150 : DN 150	0600 : DN 600

MOC of Pipe
1 : CS
2 : SS304
5 : SS316

Flange Material
1 : CS
4 : SS304
5 : SS316

Design of Measuring Sensor
A : Flanged ANSI
S : Flanged AWWA
D : Flanged DIN
X : Others

Pressure Rating
1 : 6 Kg/cm2
2 : 10 Kg/cm2
3 : 16 Kg/cm2

Communication Interface**
2 : RS485 MODBUS RTU
5 : GPRS – TCP/IP
6 : GPRS – UDP
7 : GPRS - MQTT

Data logger***
0 : Not Required
1 : Required

Output****
0 : Not Required
1 : 4-20mA DC
2 : Passive Pulse Open Collector

Temperature Measurement (BTU Energy Meter) Option
0 : Not Required
1 : Required

NOTES:
*Higher sizes available on request (Contact HO).
** For the Battery-operated version, both communication options (GPRS / RS485 Modbus RTU) are available. For the Powered version, only the RS485 Modbus RTU option is available
***Data logger Facility is only available with GPRS Communication on request (Contact HO).
**** Output (Pulse or 4-20mA DC) is available only with the Powered version
#Continuous development may necessitate changes without notice.

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