Proline Prosonic Flow 93C
Ultrasonic flowmeter

Accurate flowmeter for large pipes up to DN 1200 and with a wide range of outputs

More information and current pricing:
www.at.endress.com/93C

Benefits:

- No production losses – removal or replacement of sensor elements without process shutdown
- No additional pressure loss – full-bore design
- Process transparency – diagnostic capability
- Highest performance – extended functionality and diagnostics
- Flexible data transfer options – numerous communication types
- Automatic recovery of data for servicing

Specs at a glance

- **Max. measurement error** +/-0.5 %
- **Measuring range** 0 to 40000 m3/h 0 to 180000GPM
- **Medium temperature range** -20 to +60°C (-4 to 140°F)
- **Max. process pressure** PN 16, Cl. 150
- **Wetted materials** Sensor housing: 1.4404/DN 17440 (316L/AISI) Weld-in parts: 1.4404/DN 17440 (316L/AISI) Measuring pipe: ST 37.2 (carbon steel)

Field of application: The inline ultrasonic flowmeter Prosonic Flow C is based on the Prosonic Flow W insertion sensor. It was designed for the water and wastewater industry. Combined with the Prosonic Flow 93 transmitter with touch control, four-line display and extended functionality, Prosonic Flow 93C offers high accuracy in standard applications.

Features and specifications

Liquids

Measuring principle

Ultrasonic flow

Product headline

Accurate flowmeter for large pipes up to DN 1200 and with a wide range of outputs.
Inline flow measurement of process water, salt water, demineralized water, drinking and wastewater.

Sensor features

No production losses – removal or replacement of sensor elements without process shutdown. No additional pressure loss – full-bore design. Process transparency – diagnostic capability.
Internationally recognized drinking water approvals. Nominal diameter: DN 300 to 1200 (12 to 48"). Medium temperature: –10 to 80 °C (14 to 176 °F).

Transmitter features

Highest performance – extended functionality and diagnostics. Flexible data transfer options – numerous communication types. Automatic recovery of data for servicing.
Aluminium transmitter housing. 4 - line backlit display with touch control. HART, PROFIBUS PA/DP, FOUNDATION Fieldbus.

Nominal diameter range

DN 300 to 1200(12" to 48")

Wetted materials

Sensor housing: 1.4404/DN 17440 (316L/AISI)
Weld-in parts: 1.4404/DN 17440 (316L/AISI)
Measuring pipe: ST 37.2 (carbon steel)

Measured variables

Volume flow channel 1 or 2, sound velocity, flow velocity, average volume flow, average sound velocity, average flow velocity, totalizer

Max. measurement error

+/-0.5 %

Liquids

Measuring range
0 to 40000 m3/h 0 to 180000GPM

Max. process pressure
PN 16, Cl. 150

Medium temperature range
-20 to +60°C (-4 to 140°F)

Ambient temperature range
Transmitter:
–20 to +60 °C (–4 to +140 °F)
Sensor:
–20 to +80 °C (–4 to +176 °F)

Transmitter housing material
Wall-mounted housing: powder-coated die-cast aluminum

Degree of protection
Transmitter
IP 67 (NEMA 4X)
Sensor
IP 68 (NEMA 6P)

Display/Operation
4 lines backlit display with three optical keys

Outputs
1x 4-20 mA HART
1x Pulse/frequency/switch output (passive)

Inputs
N/A

Digital communication
HART, PROFIBUS PA, PROFIBUS DP, FOUNDATION Fieldbus

Liquids

Power supply

AC 85 to 260 V
AC 20 to 55 V
DC 16 to 62V

Hazardous area approvals

FM
CSA

Product safety

CE, C-Tick

More information **www.at.endress.com/93C**

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