



Fact Sheet

Industrial Grade Metering Products Stainless Steel Turbine Model S200



Model S200 Turbine shown with standard Computer Electronics which are sold separately.

- Field Replaceable Internal Parts
- Excellent Chemical Compatibility
- High Accuracy
- High Turndown Ratio
- Pressure Rating of 1,500 PSIG (103 bar)
- Extended Flow Range of 10 to 200 GPM (38 to 760 LPM)
- Linear Range of 20 to 200 GPM (76 to 760 LPM)
- Signal Output Capabilities
- Repeatability of $\pm 0.1\%$
- Accessories easily upgrade meters

The Industrial Grade Model S200 Turbine Housing is a two-inch, stainless steel turbine measuring in the 10 to 200 GPM (38 to 760 LPM) flow range. It addresses a wide range of industrial and commercial fluid measuring applications. These turbines offer high accuracy, compact design, and a modular approach to maximize flexibility and meet your specific needs.

GPI turbines are trouble-free. The turbine housing contains only one moving part and kits are available for the field replacement of all internal components. Wetted parts are held to a minimum of only four materials: 316 stainless steel, tungsten carbide, PVDF, and ceramic. The signal generator is fully encapsulated to increase chemical compatibility.

These turbines, when paired with the GPI Computer Electronics which are sold separately, provide a microprocessor-based LCD readout with a large six-digit display and an impressive 20:1 turndown ratio. Both totalizer and rate of flow features are available. Paired with one of the many optional accessory modules, the meter communicates with most process equipment in addition to providing local or remote indication.



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APPROVED

All GPI turbines are Factory Mutual Approved and carry a Class 1, Division 1 Approval for Hazardous environments.

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Technical Specifications

Flow Ranges

Linear:	20 to 200 GPM (76 to 760 LPM)
Extended:	10 to 200 GPM (38 to 760 LPM)
Maximum Flow:	300 GPM (1,136 LPM)
Fluid Velocity in Extended Range:	0.96-19.1 ft./sec. (0.29-5.8 m/sec.)

Performance*

Linear Range:	10:1 @ $\pm 1.0\%$ of reading
Extended Range:	20:1 @ $\pm 5.0\%$ of reading
Repeatability:	$\pm 0.1\%$
Maximum Pressure Drop in 10:1 Range:	4 PSIG (0.28 bar)
Pressure Rating:	1,500 PSIG (103 bar)
Frequency Range:	33-330 Hz @ 20-200 GPM

Connections

Inlet and Outlet:	2 inch female NPT or ISO
Wrench Flat Size:	3 in. (75mm)

Temperatures**

Operational:	-40° to +250°F (-40° to +121°C)
Storage:	-40° to +250°F (-40° to +121°C)

Wetted Components

Housing:	316 Stainless Steel
Journal Bearings:	Ceramic (96% Alumina)
Shaft:	Tungsten Carbide
Rotor and Supports:	PVDF
Retaining Rings:	316 Stainless Steel

Weight

Turbine only:	6.3 lbs.(2.9kg)
Turbine with computer:	6.6 lbs.(3.0kg)

Shipping Weight

Turbine only:	6.7 lbs.(3.1kg)
Turbine with computer:	7.0 lbs.(3.2kg)

- Results determined with 1 centistoke water at 70°F (21°C).
- ** Turbine only without computer.