





**Model S100 Turbine
shown with standard
Computer Electronics.**

**Industrial
Grade Metering
Products**

**Steel
Turbine**

Model S100

Technical Specifications 12/99 ML-1233-7

Flow Ranges	Temperatures**
Linear: 5 to 50 GPM (18.9 to 190 LPM)	Operational: -40° to +250°F (-40° to +121°C)
Extended: 2.5 to 50 GPM (9.5 to 190 LPM)	Storage: -40° to +250°F (-40° to +121°C)
Maximum Flow: 75 GPM (284 LPM)	
Fluid Velocity in Extended Range: 0.93-18.6 ft./sec. (0.28-5.7 m/sec.)	Wetted Components
	Housing: Steel
Performance*	Journal Ceramic (96% Alumina)
	Bearings:
Linear Range: 10:1 @ ±1.5% of reading	Shaft: Tungsten Carbide
Extended Range: 20:1 @ ±5.0% of reading	Rotor and PVDF
	Supports:
Repeatability: ±0.1%	Retaining Rings: 316 Stainless Steel
Maximum Pressure	
Drop in 10:1 Range: 10 PSIG (0.34 bar)	Weight
Pressure Rating: 1,500 PSIG (103 bar)	Turbine only: 2.4 lbs.(1.1 kg)
Frequency Range: 45-475 Hz @ 5-50 GPM	Turbine with computer: 2.6 lbs.(1.2 kg)
Connections	Shipping Weight
Inlet and Outlet: 1 inch female NPT or ISO	Turbine only: 2.6 lbs.(1.2 kg)
Wrench Flat Size: 1-5/8 in. (41mm)	Turbine with computer: 2.8 lbs.(1.3 kg)
<ul style="list-style-type: none"> ⚡ Field Replaceable Internal Parts ⚡ High Accuracy ⚡ Signal Output Capabilities 	<ul style="list-style-type: none"> ⚡ Excellent Chemical Compatibility ⚡ High Turndown Ratio ⚡ Accessories easily upgrade meter
<p>All turbines are Factory Mutual Approved and carry a Class 1, Division 1 Approval for hazardous environments.</p> 	 <p>U.S. Patents 4,856,384; 4,700,579; and 5,046,370. Australian Patent 572,494. Canadian Patent 1,223,464. European Patent EU0147004. German Patent P3478494.2-08. Italian Patent 68074-BE/89.</p>

* Results determined with 1 centistoke stoddard solvent test fluid at 70°F (21°C).

** Turbine only without computer