

# Field Environmental Instruments, Inc.

Equipment Rental & Field Supplies

99 Miller Avenue  
Braddock, PA 15104  
800-393-4009

## Great Plains Industries, Inc Electronic Digital Meter



The Electronic Digital Meter (EDM) is designed for measuring liquids. The meter translates pulse data from the turbine into calibrated flow units shown on the meter's readout. Field replaceable batteries provide power.

### Specifications

**Power Source:** Two lithium batteries, which provide power for at least 4,000 hours of actual use

**Operating Temperature:** +5 to +140°F (-15 to +60°C)

**Storage Temperature:** -40 to +150°F (-40 to +70°C)

**Accuracy:** Factory Calibration with non-viscous liquids to +/-1.5%; Field Calibration with non-viscous liquids to +/-1.0%

**Wetted Parts:** In all models, wetted parts include the retainer rings, shaft, bearings, signal generators, and rotor.

These parts are always the same materials. **Signal Generators:** Ferrite, **Shaft:** Tungsten Carbide

**Bearings:** Ceramic, **Retainer Rings:** Stainless Steel

The following specifications are dependent upon housing materials

<b>Pressure Rating:</b>	<b>Aluminum:</b>	300 PSIG (20.7bar)
	<b>Nylon:</b>	150 PSIG (10.3bar)
	<b>Stainless Steel:</b>	800 PSIG (55.1bar)

### Recommended Chemicals

Aluminum is recommended for use with petroleum products

Nylon is recommended for use with water or non-aggressive chemicals

Stainless Steel is recommended for use with water and chemicals compatible with stainless steel

### U.S. Measurement

Model Family	Low Flow	One Inch	Two Inch
Units	Gallons	Gallons	Gallons
Flow Range in LPM	0.3 to 3	3 to 50	30 to 300
Threads	NPT	NPT	NPT
Inlet and Outlet	1 inch	1 inch	2 inch
Internal Diameter	¼ inch	1 inch	2 inch
Design Type	Paddlewheel	Turbine	Turbine
Readout Totals			
Minimum	.01	.01	.01
Maximum	999,999	999,999	999,999
Pressure Drop at Max Flow Rate	2 PSIG at 3GPM	5 PSIG at 50 GPM	7 PSIG at 300 GPM
Dimensions			
Length	4 inch	4 inch	6 inch
Height	2.5 inch	2.5 inch	4.25 inch
Width	2 inch	2 inch	3 inch

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