

FML250 Liquid Flow Monitor

ACCURATE FLOW
MEASUREMENT DISPLAY



Turbines, Inc. is the leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All products are engineered, manufactured, and calibrated using premium quality materials by skilled tradesman with state-of-the-art equipment.

Turbines, Inc. maintains a team of dedicated engineers, technicians, and application specialists, who are on-call to assist with product/application guidance, technical assistance, and special configurations or modifications.

The **FML250 Flow Monitor** is designed to accurately calculate and display realtime flow data in various engineering units. The FML250 monitor is front keypad programmable, features an LCD display, and allows for 2-40 point linearization for enhanced metering accuracy.

This battery powered monitor features a comprehensive test suite, featuring auto K-factor correction, 4-20mA and pulse output simulation, battery voltage, and raw meter input frequency.

FML250 Features

Factored pulse output	(150mA, 30VDC max) Opto-isolated open collector output
Frequency or fixed pulse width	2, 5, 10, 50, 100, 250, 500, & custom mS
Pulse output divider	1, 10, 100, 1000, & custom
Pulse output multiplier	x100(0.01), x10(0.1)
Factored rate output	(4-20mA) Scalable low and high programmable Loop powered operation
Display	+/- 0.01% reading (rate) or +/- 1 count (total) Two independent lines for maximum display
Rate display	auto-ranging
Power modes	Selectable for custom battery life External loop powered and reverse polarity protected
Temperature	-22° F to +150° F
Signal Input	0-6000Hz, 50mV-36V (field adjustable)
Input Impedance	10k ohms
Temp Compensation	Optional PT1000 - 2 Wire RTD Sensor
Certification	CSA/US, NEMA 4X, ISO 9001



Specifications

Performance Data	
Linearization	2-40 points
Refresh Rate	Continuous to 2 seconds
Pulse Input	Supports sine and square wave
Keypad	Front panel
Power	Battery powered operation and selectable power modes. Lithium primary D cell battery standard, alkaline 1.5 D clip available
Testing	Built-in test system for diagnostics, pulse output, and 4-20mA output testing
Display Rates	Per second, minute, hour, day, or custom
Maintenance	Automatic reminders and flow rate warnings
Materials	Polycarbonate enclosure
Storage	EEPROM parameter storage Secondary storage location for parameters and linearization table
Additional Information	
Mounts	Direct turbine, wall, or pedestal
Weight	2 lbs
Engineering Units	GAL, CF, LIT, M3, BBL, LB, KG, MCF, Custom

FML250 Configurations

FML250 - PXXX - X

Options

P = Scaleable Pulse Output (Standard)
 4 = 4-20mA Loop Output
 L = Linearization (2-40 points)
 T = Temperature Compensation (includes 1000 ohm RTD & 36" temperature cable)

Mounting

Blank = Meter mount
 SM = Swivel Mount
 W = Wall Mount (Includes 30' Signal Cable)

Example Part Number: FML250 - PL - W = (FML250 with scaleable pulse output, linearization, wall mount).

Service

Our dedicated staff offers complete support and recertification for flow meters — whether our own or a competitor's brand. Our calibration services are performed by our trained technicians using the latest testing equipment.

Turbines, Inc. maintains extensive inventories in multiple locations to facilitate rapid, industry leading deliveries.

Worldwide Support

We serve customers globally with offices in Altus, OK; Seneca, SC; Odessa, TX; Cranston, RI; and Edmonton, Alberta, Canada.



All Turbines, Inc. products are proudly made in the U.S.A.



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