

# FML250-IS Liquid Flow Monitor

**INTRINSICALLY SAFE 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-IS Flow Monitor** is designed to accurately calculate and display realtime flow data in various engineering units. The FML250-IS 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-IS Features

<b>Factored pulse output</b>	(150mA, 30VDC max) Opto-isolated open collector output
<b>Frequency or fixed pulse width</b>	2, 5, 10, 50, 100, 250, 500, & custom mS
<b>Pulse output divider</b>	1, 10, 100, 1000, & custom
<b>Pulse output multiplier</b>	x100(0.01), x10(0.1)
<b>Factored rate output</b>	(4-20mA) Scalable low and high programmable Loop powered operation
<b>Display</b>	+/- 0.01% reading (rate) or +/- 1 count (total) Two independent lines for maximum display
<b>Rate display</b>	auto-ranging
<b>Power modes</b>	Selectable for custom battery life External loop powered and reverse polarity protected
<b>Temperature</b>	-22° F to +140° F
<b>Signal Input</b>	0-6000Hz, 50mV-36V (field adjustable)
<b>Input Impedance</b>	10k ohms
<b>Certifications</b>	CSA/US - Class I, Division 1, Groups ABCD, T4 - Class I, Zone 0, AEx ia [ia] IIC T4 Ga - Ex ia [ia] IIC T4 Ga IP66, 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
<b>Materials</b>	Polycarbonate
<b>Storage</b>	EEPROM parameter storage Secondary storage location for parameters and linearization table
<b>Additional Information</b>	
Mounts	Swivel Mount, Wall Mount
Weight	2 lbs
Engineering Units	GAL, CF, LIT, M3, BBL, LB, KG, MCF, Custom

## FML250-IS Configurations

### FML250-IS - PXXX - X

#### Options

P = Scaleable Pulse Output (Standard)  
4 = 4-20mA Loop Output  
L = Linearization (2-40 points)

#### Mounting

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

**Example Part Number:** FML250-IS - PL - W = (FML250-IS 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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