



FML250™ Data Sheet

UNIVERSAL® Flow Monitors

The FML250 Liquid Flow Monitor is designed specifically for liquid applications to accurately compute and display actual flow parameters. The system operates seamlessly with our TM Series flow meters to deliver quality results for various application requirements.

The FML250 monitor is front keypad programmable, features an LCD display, and allows for 2-40 point linearization for enhanced metering accuracy.

The FML250 can calculate liquid flow in multiple engineering units, including mass, and has selections for flow meter pulse inputs.

This battery-powered monitor can be electronically adjusted to reduce noise, providing optimal accuracy, mobility, and high-precision reliability for liquid monitoring requirements.



FML250 with FM Flowmeter

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)

+/- 0.3% reading

Scalable low and high programmable

Loop powered operation (7.5-36VDC)

Enclosure Rating: NEMA 4X



Display:

+/- 0.01% reading (rate)

or +/- 1 count (total)

Rate Display: auto-ranging

Input Impedance: 10k ohms

Temperature Compensation:

-328° F to +1,000° F

Accuracy +/- 0.03%

(full scale at 75° F)

Power Modes:

External loop powered and reverse polarity protected

Operating Temperature:

-22° F to +150° F

Signal Input:

0-6000Hz, 50mV-36V (field adjustable)

SPECIFICATIONS

Performance Data

Linearization	2-40 points
Refresh Rate	Continuous to 2 seconds
Pulse Input	Supports sine 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
Rate Display Units	Per second, minute, hour, day, or custom
Maintenance	Automatic reminders and flow rate warnings
Materials	
Mounts	Direct turbine, wall, or swivel
Weight	2 lbs
Data Storage	EEPROM parameter storage Secondary storage location for parameters and linearization table

The FML250 Product Family

	Meter Mount (None)	Swivel Mount (SM)	Wall Mount (W)
Options			
Standard Pulse Output	FML250-P	FML250-P-SM	FML250-P-W
4-20mA Loop Output (4)	FML250-P4	FML250-P4-SM	FML250-P4-W
Linearization (2-40 point)	FML250-PL	FML250-PL-SM	FML250-PL-W
Pulse, 4-20mA, Linearization	FML250-P4L	FML250-P4L-SM	FML250-P4L-W
Temperature Compensation	FML250-PTC	FML250-PTC-SM	FML250-PTC-W



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