

Data Sheet FML250

FML250 Liquid Flow Monitor

Highly Accurate and Reliable Temperature Compensated Liquid Measurement

urbines, Inc. is a leader in the design and manufacture of reliable and accurate turbine flow metering equipment, electronic monitors, and accessories. All of our products are engineered, manufactured, and calibrated using premium quality materials by a skilled team of dedicated professionals, using state-of-the-art equipment.

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 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)

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	

Support and Service

Our full-time, dedicated service group offers 100% trustworthy support and recertification for flow meters — whether our own or a competitor's brand. Our meter proving services are performed by our trained technicians and the latest testing equipment. Custom meters and instrumentation options for your application are readily available. Many of our products are in stock and ready for immediate shipment.

Certifications

Turbines, Inc.'s quality management systems are ISO 9001 and AS 9100 compliant.

Worldwide Support

We serve customers worldwide delivering proven differential and turbine meters, and fire suppression solutions. Our U.S. offices are located in Rhode Island (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC. We also have offices in Edmonton, Alberta, Canada; Beijing, China; and Dubai, United Arab Emirates.

Contact your Turbines, Inc. Field Application Engineer for assistance.



 $\label{eq:local_equation} \textbf{All Turbines, Inc. products are proudly made in the U.S.A.}$



www.primaryflowsignal.com



15935 U.S. Highway 283, PO Box 933 Altus, OK 73522 USA Tel: +1-580-477-3067 Fax: +1-580-477-3071

www.turbinesincorporated.com



6 Grand View Street Coventry, RI 02816 Tel: +1-401-828-9787 Fax: +1-401-828-9788

www.pfs-fsg.com