

# FMG1000 Gas Flow Monitor

## Enhanced, Highly Accurate Gas Measurement Display

**T**urbinex, 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 engineering team, using state-of-the-art equipment.

The **FMG1000 Gas Flow Monitor** is a self-contained gas flow device designed to accurately compute and display corrected volume for gas applications. This monitor has inputs for temperature and pressure to continuously calculate the effects of gas compressibility on computed volume. This microcontroller-based rate/totalizer can compute gas density for the actual conditions of flow.



The FMG1000 features an LED back-lit display with two independent display lines for presenting calculated values. When combined with our TMG Series flow meters or other frequency devices, the system operates seamlessly to deliver proven results for various application requirements.

### FMG1000 Features

**Outputs:** factored pulse  
(150mA, 30VDC max)  
Opto-isolated open collector output  
Output pulse: frequency or fixed pulse width; 2, 5, 10, 50, 100, 250, 500, & custom mS  
Pulse output divider:  
0.01(x100), 0.1(x10), 1, 10, 100, 1000, & custom

**Alarm:** (150mA, 30VDC max)  
Opto-isolated open collector output can be assigned to any warning combination

**Accuracy:**  
Gas compensation: <~0.2%  
Display: +/- 0.01% reading (rate) or +/- 1 count (total)  
Digital output: +/- 1 count

**Signal Input:** 0-6000Hz,  
50mV-36V p-p (field adjustable)

**Temperature:** -22°F to +150°F

**Display:**  
Non-resettable "grand" totalizer  
Auto-ranging rate display  
Resettable total  
Settable rate display

### Specifications

Performance Data	
Linearization	40 point
Refresh Rate	Continuous to 2 seconds
Pulse Input	Supports sine, square, and OC type flow meters
Pulse Output	Opto-isolated
Internal Power	Lithium primary D cell battery
External Power	5-48 VDC reverse polarity protected
Testing	Built-in test system for diagnostics and pulse output
Display Rates	Per second, minute, hour, day, or custom
Maintenance	Internal warning and error reporting system
Materials	
Mounts	Turbine or wall
Weight	5 lbs
Storage	
EEPROM parameter storage Secondary storage location for parameters and linearization table	
Additional Information	
Field-programmable	

### 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. Our products are always in stock and ready for immediate shipment, typically within 24 hours.

### Certifications

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

### Worldwide Support

Turbines, Inc. serves customers worldwide with U.S. offices in Cranston, RI (headquarters); Houston and Odessa-Midland, TX; Tulsa and Altus, OK; Seneca, SC; as well as locations in Edmonton, Alberta (Canada) and Beijing, China.

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



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