

FEM-03

Flow Rate Monitor

Ideal for any industry or flow measurement application where a simple, compact & easy-to-use remote flow monitor is required.

Features:

- Single or dual channel
- RS-232 communication
- Serial port for serial protocol communication or printer (adaptor required)
- Two programmable Form C relay outputs
- Assignable 4-20 mA output
- Large, easy-to-read LCD display

Applications:

The FEM-03 Flow Monitor from AW Gear Meter is a versatile, multi-functional device that helps you track rate, flow, limit, ratio, and more. Standard unit is one channel. Optional two channels allow you to monitor dual flows, and display them in a number of ways: separately, as a sum (for example in total material use), as a difference (as in fuel consumption), or as a ratio of product A/product B. Also use the FEM-03 to detect bi-directional flow when A and B channel signals are available from a single flow meter.

The FEM-03 has a number of related functions that add to its capabilities. For example, the device gives you the capability to monitor data and program the unit remotely. Four model variations (see reverse side) give the FEM-03 the capability of performing limit, warning and alarm duties.

Benefits:

MONITORING VERSATILITY

The FEM-03 is available with one or two channels, allowing you to monitor:

- Flow rate from one or two meters
- Flow volume (sum or difference of two flows)
- Ratio (product A/product B)

EASY REMOTE PROGRAMMING

This unit can be easily programmed to display what you need in a variety of engineering units.

UP AND RUNNING IN MINUTES

Easy plug-in installation. A quick setup procedure allows you to have the flow monitor working with just a few simple programming steps.



Technical Specifications:

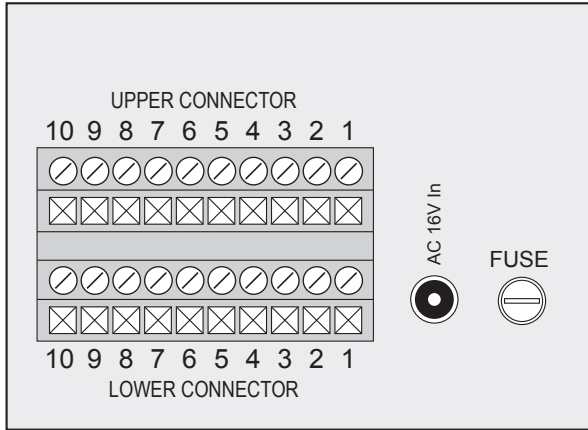
- **Power Requirement:**
16 VAC/1000mA with supplied 110 VAC transformer, or 24 VDC/200mA (customer supplied)
- **Flow Sensor Power Supplies:**
(2) @ 15 VDC/20 mA each
- **Frequency Inputs:** 0-4 KHz, sine, square or saw-tooth; 4 volts minimum amplitude; 10 Kohm maximum impedance
- **4-20 mA Analog Output:**
Self-powered loop output into a maximum 400 ohm load impedance
- **Relay Contact Ratings:**
Maximum switch voltage = 220V DC, 250 VAC; max. switch current = 2A
- **Maximum Switched Power:**
Resistive load = DC 60W/AC 125 VA; inductive load = DC 30W/AC 60 VA
- **Rated Load:**
Resistive load = DC 30V, 2A/AC 110V 0.5A; inductive load: DC 30V, 1A/AC 110V 0.3A

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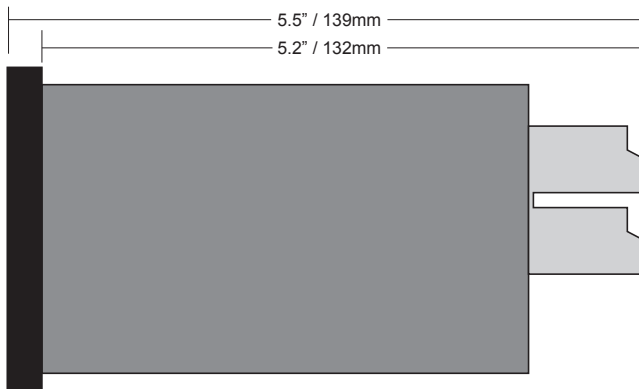
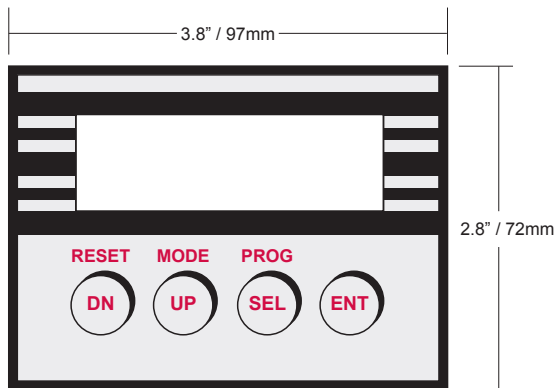


Terminal Assignments:



Terminal	Upper Connector	Lower Connector
1	+15 VDC Out	+15 VDC Out
2	DC Common	DC Common
3	Freq. A Input	Freq. A Output
4	Not Used	RS232 TX Output
5	Not Used	RS232 TX Output
6	+mA Output	Reset Total
7	-mA Output	DC Common
8	Limit 2 Common	Limit 1 Common
9	Limit 2 N.C.	Limit 1 N.C.
10	Limit 2 N.O.	Limit 1 N.O.

Monitor Dimensions:



Part Number Guide:

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Output:

A = 4-20mA
 = (2) Form C Relay Outputs

Channels:

= Single Channel
 X = Dual Channel
 2 = Dual Channel w/ bi-directional flow indication

Products may be subject to change without notice - Contact factory for the most up-to-date product information.

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