

FLOW
TRANSMITTERS



AW COMPANY

ELECTRONICS FOR
INSTRUMENTATION

EMO-1005 Flow Computer



When a high degree of accuracy is required

The EMO-1005 is a programmable, multichannel, indicating, computing and controlling flow computer. The EMO-1005 can be configured to provide closed loop control (PID) or flow monitoring for up to four separate channels simultaneously, while providing a continuous analog output signal for each channel. At the same time, rates or totals of any two channels can be selectively displayed. Each channel card has four limits that can be programmed for either flow rate or totalization. The EMO-1005 will linearize up to 10 points to $\pm 12.5\%$ for transducers that produce nonlinear signals.

APPLICATIONS

Batch **Rate** **Totalization** **Linearization** **Close Loop Control** **Indication**

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Technical Data

Power Supply Card

Input: 110 VAC or 220 VAC
(Jumpers on board)

Consumption

20 VA

Communication

RS 422 Standard, RS 232 Optional

Display

25 mm x 100 mm Readout
2 Line/16 Character
Alphanumeric LCD

Environmental

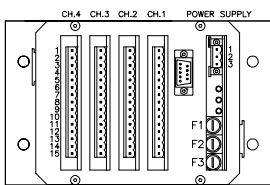
Storage: -40° to 85°C
Operating: 0° to 50°C
Humidity: 10-90% Noncondensing

Features

- Closed Loop Mode
- Monitor Mode
- Ratios
- Scaling for Totalizer
- Four Settable Limits
- Sample Amount
- Cutoff Frequency
- Analog Output Gain
- Analog Output Offset
- Analog Input Gain
- Ten Point Linearization $\pm 12.5\%$ Max
- Selective Baud Rate (9600/4800/2400)

The EMO-1005 is capable of displaying 28 different engineering units.

Back Panel



Serial Communication Connector

RS-232 (Option)	PIN	RS-422 (Standard)
RS-232RX	1	
RS-232TX	2	TTI Level (Receive)
	3	RS-422(-)(Transmit)
	4	RS-422(-)(Receive)
	5	Signal Ground
	6	TTI Level (Transmit)
	7	RS-422(+)(Transmit)
	8	RS-422(+)(Receive)
	9	Shield Ground

Channel Card Connections

1	— + 15 V Supply to Transmitters <i>25mA Max Load</i>
2	— Instrument Ground
3	— Auxillary Sensor Input <i>50mV MIN</i>
4	— Transmitter Input Frequency <i>Max 2 KHz</i>
5	— Analog Input, 4-20/0-20mA(+)
6	— Analog Input, 4-20/0-20mA(-)
7	— Analog Output, 4-20/0-20mA(+)
8	— Analog Output, 4-20/0-20mA(-)
9	— Reset Input for Totalizer, <i>3-24V, Input</i>
10	— Analog Output, <i>0-5V/1-5V</i>
11	— Limit 4 Out
12	— Limit 3 Out
13	— Limit 2 Out
14	— Limit 1 Out
15	— Limits Common

OPTO-Coupler Output
NPN Open Collector Transistor
30mA/30VDC Max

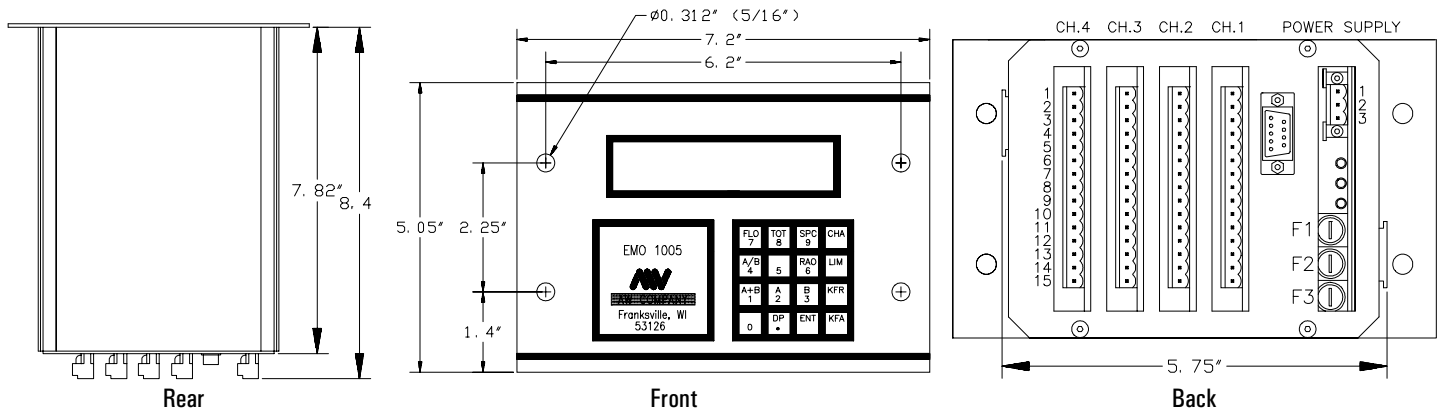
Power Supply Connections

- 1 - Housing Ground
- 2 - Neutral 110/220V 60/50Hz
- 3 - Live 110/220V 60/50Hz

Fuses

- F1 - 0.5A/250V AGC
- F2 - 1A/250V AGC
- F3 - 0.25A/250V AGC

Dimensions



EMO-1005 Portable



Features Included

- Rechargeable battery
- Six foot AC Power Cord
- 110/220VAC Power Input
- 15V Power Output
- Rugged Case

Ordering Information

EMO-1005/ X / X

