

Single-Channel Signal Conditioner/Indicators

Models GM, GM-A and HM

LARGE 0.56" READOUT

20000 COUNT RESOLUTION

4 1/2 DIGIT LED DISPLAY

SHORT CIRCUIT PROTECTED



Shown with accessory AA924 bench mount bracket

Model GM-A (Order Code AE216)

The GM-A is a low cost digital readout that works with amplified (0-5V or 4-20ma) transducers or transmitters. This unit supplies power to the sensors. For use with two wire current transducers, contact factory. (Separate power supply required for 3-wire use.)

Model GM (Order Code AE213)

The GM is a versatile full function signal conditioner, amplifier and power supply that works with unamplified mv/v transducers. It also provides shunt calibration (R-cal) which enables the system to be set up without using an expensive primary stimulus (done at no extra charge at the factory if the readout and transducer are purchased at the same time). A full range of options like peak/hold, track/hold and dual limits are available.

Model HM (Order Code AE218)

The HM offers all of the standard features of the GM plus a microprocessor based factory programming capability. Linearization can improve the accuracy of a particular transducer. The HM also allows for special application programming which may be required for certain applications. (i.e. can make an accelerometer read out in degrees in order to use it as an inclinometer.) The HM features auto zero, RS-232, and tare capability.

ELECTRICAL

# Characters Displayed	4 1/2
Power Requirements	Standard 115 VAC
	Optional 12 VDC, 220 VAC
Conversions per Second	3
Scaling Method	Potentiometer
Polarity Indication	Yes
Decimal Point Selection	Jumper (non-solder)
Display Size	0.56"
Overrange Indication	Flashing Display
Resolution	1/20000
Digital Display	LED

ENVIRONMENTAL

Temperature, Storage	-20°F to 200°F
Temperature, Operating	32°F to 130°F

PHYSICAL

Weight	2 1/4 lbs.
Mounting*	Bench, Rack or Panel
Case Size, Standard	1/8 DIN
Case Material	Noryl plastic

* Panel mount included with unit.

	INPUT ACCEPTED					EXCITATION PROVIDED		
	.5 mV/V to 5 mV/V	5 mV/V to 50 mV/V	0-2V	0-5V	4-20mA	5V (±2.5V)	10V (±5V)	±15V
GM-A	NA	NA	x	•	x	NA	NA	•
GM	•	x	x	x	o	•	•	NA
HM	•	x	x	x	o	•	•	NA

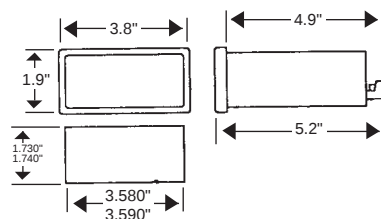
• = Standard
x = Standard variable, customer's choice
o = Optional
NA = Not Available

Features

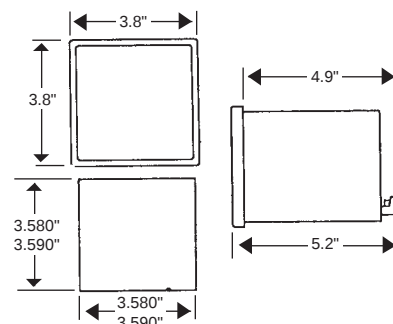
	GM-A	GM	HM
Readout scaled in engineering units	•	•	•
Amplified output, $\pm 5V$	•	•	•
Amplified output, 4-20mA	o	o	o
Shunt calibration	NA	•	•
Set up with transducer (no charge)	NA	•	•
Zero reset, tare	NA	NA	•
Linearization	NA	NA	o
RS-232 interface	NA	NA	•
Amplifier output impedance < 2 Ohms	•	•	•
$\pm 0.01\%$ Accuracy	•	•	NA
$\pm 0.03\%$ Accuracy	NA	NA	•
Amplifier frequency response 250 Hz	•	•	•
Common mode rejection 80 DB	NA	•	•
Fine span adjust > $\pm 15\%$	NA	•	•
Coarse span adjust > 80%	NA	•	•
Fine zero adjust > $\pm 15\%$	NA	•	•
Coarse zero adjust > 80%	•	•	•
Short circuit protection	•	•	•
Decal for engineering units	NA	•	•
Light Bar & Scaling Decal	NA	•	•

- = Standard
- o = Optional
- NA = Not Available

Dimensions



PANEL CUTOUT: 1/8 DIN



PANEL CUTOUT: 1/4 DIN

Options

	Option Code	GM-A	GM	HM
Rack Mount Adapter 19"	51a	o	o	o
NEMA Enclosure	51c	o	o	o
Custom Front Panel	51d	o	o	o
4-20mA Output	56a*	o	o	o
Hi-Low Limits	58a	NA	o	NA
Peak/Hold**	58c	NA	o	NA
Track/Hold	58d	NA	o	NA
220 VAC	60a	NA	o	o
Battery powered (12 VDC)	60c	NA	o	NA

* Optional 56a requires 1/4 DIN enclosure

** Bleed-off rate: $\leq 0.01\%$

Accessories

- AA154 Mating connector and power cord for Model GM-A
- AA924 Bench mount bracket
- AA923 NEMA-4 Splash proof front cover
- AA172 25 pin RS232 (Model HM)

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