

Model GM

Digital Display/Signal Conditioner



DESCRIPTION

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 setup 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.

FEATURES

- Strain-gage/bridge-based transducer input
- 4 1/2 digit LED display
- Large 14,2 mm [0.56 in] readout
- High speed analog output (up to 27 kHz)

*Optional 56a requires 1/4 DIN enclosure

**Bleed-off rate: ≤ 0.01 % of full scale

Model GM

ELECTRICAL SPECIFICATIONS

| Characteristic | Measure |
|--------------------------------|--|
| Input signal | 1 mV/V to 5 mV/V or 5 mV/V to 50 mV/V (optional) |
| Number of characters displayed | 4 1/2 |
| Power requirements, standard | 115 Vac @ 5 W |
| Power requirements, optional | 12 Vdc, 220 Vac |
| Conversions per second | 3 |
| Scaling method | Zero and span adjustment |
| Polarity indication | Yes |
| Decimal point selection | Jumper (non-solder) |
| Display size | 14,2 mm [0.56 in] |
| Overrange indication | Flashing display |
| Display resolution | 1/20000 max. |
| Digital display | LED |
| Analog output | ±5 Vdc or 4 mA to 20 mA (optional) |
| Amplifier output impedance | < 2 ohm |
| Accuracy | ±0.03 % |
| Amplifier frequency response | dc to 250 Hz |
| Common mode rejection | 80 db |
| Fine scan adjustment | < ±15 % |
| Coarse scan adjustment | > 80 % |
| Fine zero adjustment | < ±15 % |
| Coarse zero adjustment | > 80% |

ENVIRONMENTAL SPECIFICATIONS

| Characteristic | Measure |
|------------------------|------------------------------------|
| Temperature, storage | -29 °C to 93 °C [-20 °F to 200 °F] |
| Temperature, operating | 0 °C to 54 °C [32 °F to 130 °F] |

PHYSICAL SPECIFICATIONS

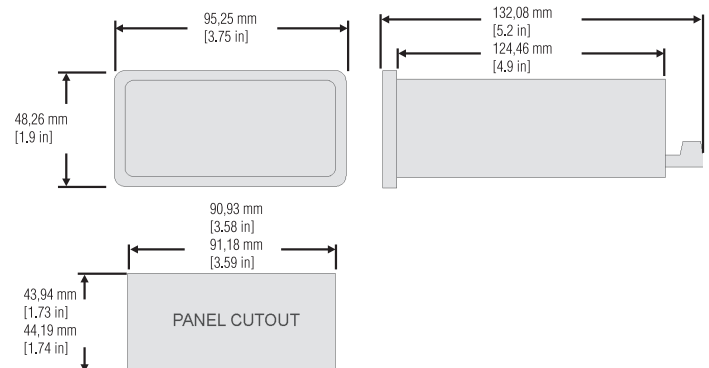
| Characteristic | Measure |
|------------------------|---|
| Weight | 1 kg [2.25 lb] |
| Mounting | Bench, rack or panel (panel mount included with unit) |
| Case size (standard) | 1/8 DIN |
| Case material | Noryl plastic |
| Input/output connector | Removable with screw terminals |

Not RoHS compliant

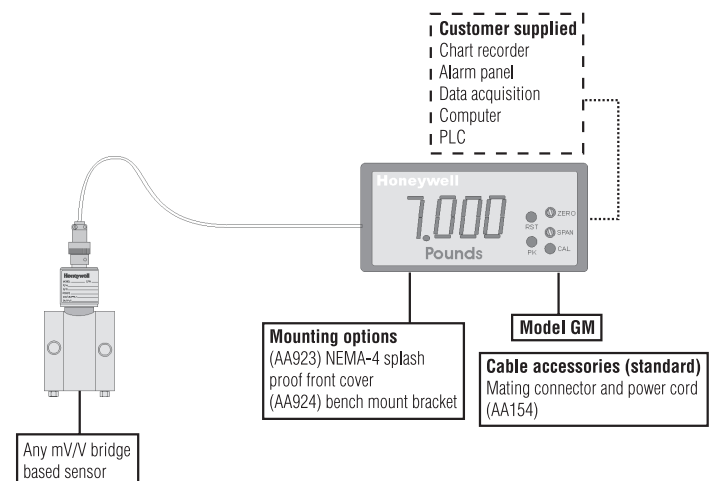
OPTION CODES

| | Many range/option combinations are available in our quick-ship and fast-track manufacture programs. Please see http://sensing.honeywell.com/TMsensor-ship for updated listings. |
|------------------|--|
| Input range | 0.5 mV/V to 5 mV/V 52c. 5 mV/V to 50 mV/V |
| Analog output | Filter setting 260 Hz 58t. Optional filter setting (10 Hz, 30 Hz, 10 kHz, 27 kHz) |
| Alarm outputs | 58a. Hi-lo limits |
| Display options | 58c. Peak/hold 58d. Track/hold |
| Power supply | 110 Vac 60a. 220 Vac 60c. Battery powered (12 Vdc) 56a. 4 mA to 20 mA output |
| Front panel | 51d. Custom front panel |
| Mounting options | 51a. Rack mount adapter 51c. NEMA enclosure |

MOUNTING DIMENSIONS AND CHARACTERISTICS

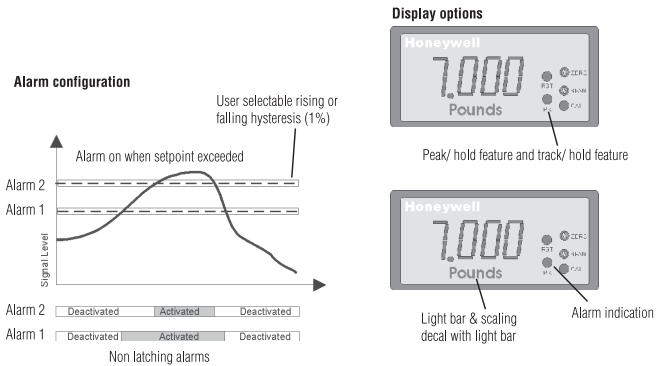


TYPICAL SYSTEM DIAGRAM

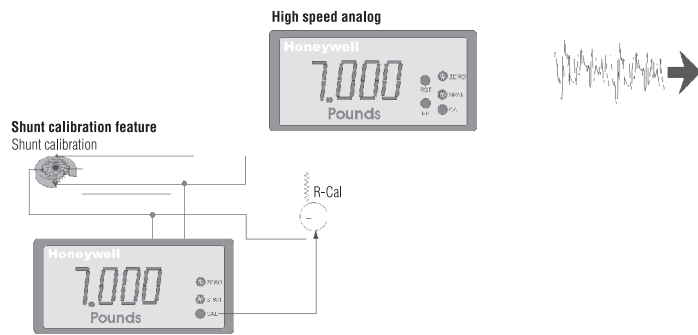
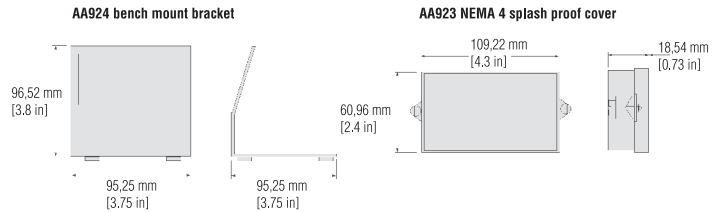


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COMPREHENSIVE SIGNAL CONDITIONING

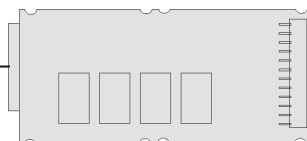


ACCESSORIES AND OPTIONS DIMENSIONS



FLEXIBLE PLATFORM

Relay card options
 (58a. option) hi-low limits
 (not available with track/ hold or peak/ hold option)



Signal conditioning options
 (51d. option) custom front panel
 (56a. option) 4 mA to 20 mA output (requires 1/4 DIN format)
 (58c. option) Peak/ Hold (not available with alarm or track/ hold option)
 (58d. option) Track/ Hold (not available with alarm or peak/ hold option)
 (60a. option) 220 VAC
 (60c. option) 12 VDC Powered
 (52c. option) 5 mV/V to 50 mV/V input range (user selectable)
 (58t. option) Low pass filter setting
 10 V or 5 V Excitation (user selectable)



Mounting options
 Panel mount (standard)
 Bench mount bracket (AA924)
 482,6 mm [19 in] rack mount adaptor (51a. option)

Warranty. Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

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⚠ WARNING
MISUSE OF DOCUMENTATION

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Failure to comply with these instructions could result in death or serious injury.

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