

## 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:  $\leq 0.01$  % 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

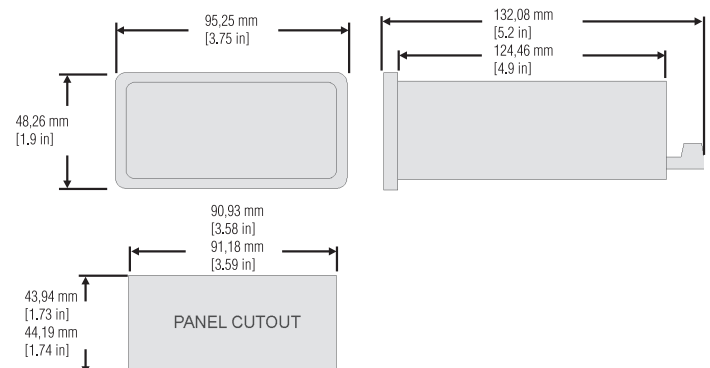
| Characteristic         | Measure   |
|------------------------|---|
| Weight                 | 1 kg [2.25 lb]  |
| Mounting               | Bench, rack or panel (panel mount included with unit) |
| Case size (standard)   | 1/8 DIN   |
| Case material          | Noryl plastic   |
| Input/output connector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

Not RoHS compliant

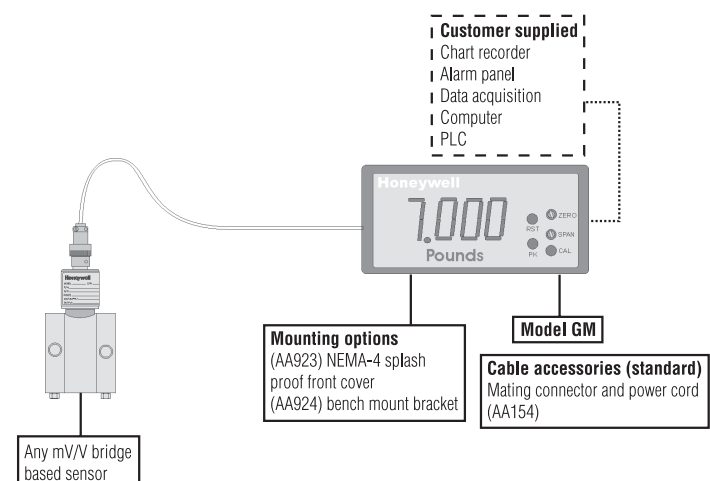
## OPTION CODES

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

## MOUNTING DIMENSIONS AND CHARACTERISTICS

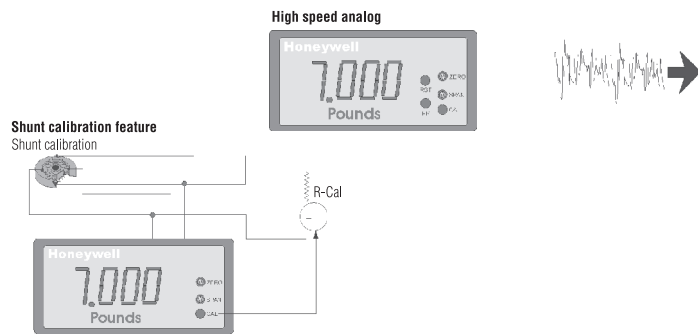
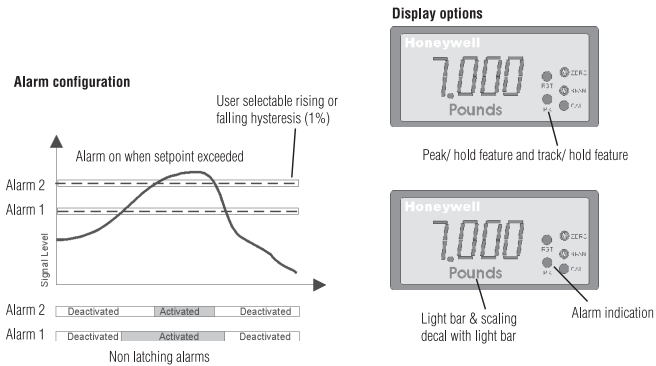


## TYPICAL SYSTEM DIAGRAM

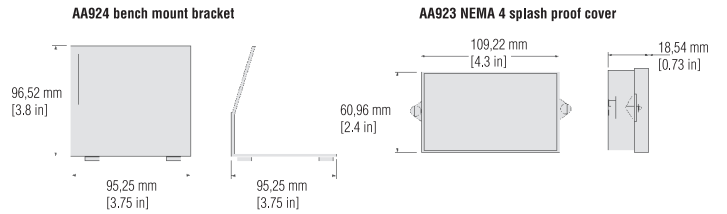


# Digital Display/Signal Conditioner

## COMPREHENSIVE SIGNAL CONDITIONING



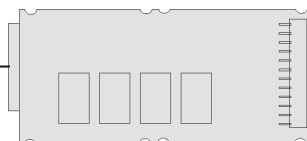
## ACCESSORIES AND OPTIONS DIMENSIONS



## 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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Email inquiries to [info.sc@honeywell.com](mailto:info.sc@honeywell.com)

 **WARNING**  
**PERSONAL INJURY**

- DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

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

 **WARNING**  
**MISUSE OF DOCUMENTATION**

- The information presented in this catalogue is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

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

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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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## JONHON

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