

## Model MA15

### Accelerometer



#### DESCRIPTION

The Model MA15 is a low cost amplified piezoelectric accelerometer which is designed to be used in Industrial test and automation environments; including laboratory testing, modal studies and test cells. The constant current low output impedance output combined with the ability to drive high load capacitance allows long runs of low cost cable without degradation of data.

The Model MA15 features a high natural frequency, a wide frequency range and a flat sensitivity vs. temperature response over the temperature range. The seismic element is mechanically isolated from the mounting base, resulting in a low base

strain sensitivity. The stainless steel materials are non-magnetic resulting in very low magnetic field susceptibility. These features, together with a sealed body, assure accurate and reliable data.

The Model MA15 is available in a number of configurations and options that include connector or integral stainless steel armored cable (specify length at time of ordering) and an intrinsically safe option. The mounting hole can be supplied with different threads. The Model MA15 can be supplied in a number of different sensitivities to suit the expected vibration levels for the application.

#### FEATURES

- General purpose
- 4 mA to 20 mA two-wire proportional to G output
- 2 Hz to 1 kHz usable range
- Intrinsically safe option
- Stainless steel overbraided PTFE cable

# Model MA15

## PERFORMANCE SPECIFICATIONS

Characteristic	Measure
Dynamic range	±50 G std.
Range	4 mA to 20 mA for 10 G
Transverse sensitivity	Less than 5 %
Temperature sensitivity	0.145/°F
Frequency range	2 Hz to 1 kHz ±10 %
Amplitude linearity	Better than 1 % linearity
Mounted base resonance	5 kHz

## ENVIRONMENTAL SPECIFICATIONS

Characteristic	Measure
Temperature, operating	-23 °C to 99 °C [-10 °F to 210 °F]
Sealing	IP67/NEMA 4

## ELECTRICAL SPECIFICATIONS

Characteristic	Measure
Input	Voltage
Output	4 mA to 20 mA for 50 G
Supply voltage	12 V to 32 V
Cable, AG907	Stainless steel overbraided PTFE
Standard cable length, AG907	4,9 m [16 ft]
Isolation	Base isolated
Electrical noise	0.3 mG max.
Mating connector, AG906	MH008

## MECHANICAL SPECIFICATIONS

Characteristic	Measure
Weight	0,14 kg [5 oz]
Material	Stainless steel
Mounting torque	6 ft-lb

## RANGE CODES (diff. by dynamic range)

Range Code	Range
GE	1 G
GF	2 G
GJ	5 G
GK	10 G
GN	50 G

## WIRING CODES

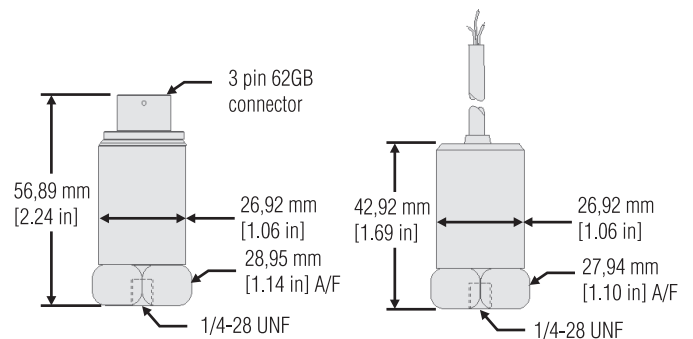
AG906	
Pin A	(+) Supply
Pin B	No connection
Pin C	(+) Output

AG907	
White	(+) Supply
Black	(+) Output
Shield	Case ground

## OPTION CODES

	<b>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.</b>
<b>Dynamic</b>	1 G, 2 G, 5 G, 10 G, 50 G
<b>Electrical termination</b>	3-pin 62 GB connector Cable - cable length (specify at time of ordering) 17b. 1/4-28 UNF 17c. Quickfit female

## MOUNTING DIMENSIONS



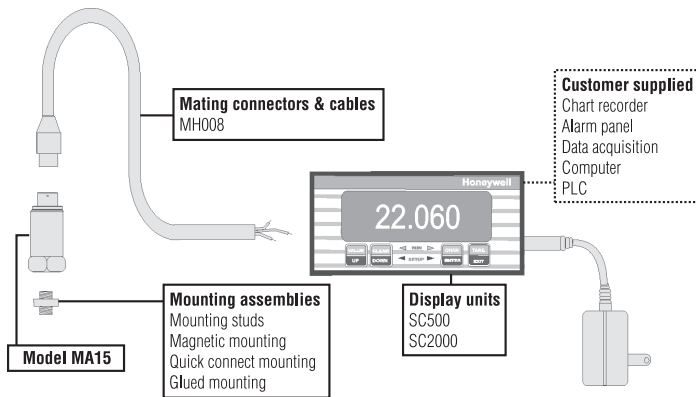
Model MA15 (order code AG906)

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## TYPICAL SYSTEM DIAGRAM



**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.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

For more information about Sensing and Control products, visit [www.honeywell.com/sensing](http://www.honeywell.com/sensing) or call +1-815-235-6847. 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.**

Sensing and Control  
Automation and Control Solutions  
Honeywell  
1985 Douglas Drive North  
Golden Valley, MN 55422 USA  
+1-815-235-6847  
[www.honeywell.com/sensing](http://www.honeywell.com/sensing)

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