



The affordable solution for gas
detection and alarm needs

Manning GM-JR gas monitor/readout alarm



Configurable

- Easily adjusted setpoint and relay output in either the "stand-alone" or "feed through" configuration
- Continuously monitors the incoming 4/20 mA signal from the sensor
- Can be incorporated into computer control systems, can be assimilated by OEM's into existing gas detection, or act as a remote indication in addition to main readout

Fail Safe Design and Functionality

- Composed of a single, rugged, miniaturized board mounted inside the enclosure door, and a separate terminal board for the sensor and/or cable connections
- If the 4/20 mA signal drops below 1.4 mA, the fault LED will illuminate and the alarm relay will trip
- Alarm relay is always energized in its normal state, for additional safety

Easy to Read Display

- LED bargraph is factory scaled based on various specified ppm ranges
- Create alarm trip adjustments easily by using a shorting bar on the back of the display board following power up or momentary power loss
- Bottom bargraph segment blinks for one minute controlled mini-atmosphere inside the sensor

Housing

- Rugged NEMA #1 steel gasketed enclosure

The Manning GM-JR is an innovative stand alone or signal feed through readout for monitoring any of the Honeywell Analytics' Manning line of sensors at an affordable price.

The Manning GM-JR is a readout/alarm unit that can be configured in a variety of ways to solve many gas concentration and alarm needs at a very affordable price. The readout provides a calibrated 20 segment LED bargraph, alarm and fault LED's, plus a relay output with easy trip point adjustment. The Manning GM-JR offers unique configuration possibilities for clients who have their own computer control system, OEMs who want to incorporate gas sensing in their design and existing customers who want remote indication in addition to their main readout.

Applications

- Banana and Produce Rooms
- Beverage Plants
- Chemical Plants
- Confined Space Entry
- Food Processing
- Gas Bottling Plants
- Ice Rinks
- Product Coolers
- Rack Houses
- Refrigeration Systems
- Supermarkets
- Wineries



Technical summary



General Specification	
Use	A highly configurable gas monitor and readout alarm that can be connected into a computer control system, incorporate gas sensing into an operation, or simply add remote indication in addition to the main readout. Available in a "stand-alone" or "feed-through" design, this readout/alarm can be configured in a variety of different ways to solve many gas concentration and alarm needs at a very affordable price.
Common Operation	
Signal Input	4/20 mA precision differential input allows this unit to be mounted remotely and powered from sensor power (internal resistance drop, 100 ohms)
Output	Relay is rated at 0.5 amp at 24 VDC or 24 VAC, 0.25 amp at 120 VAC. Relay will trip on Alarm and Fault conditions.
Display	20 segment LED bargraph, with a bottom segment that flashes to indicate power up delay, and lights continuously to indicate that the power is on
Electrical Power	15-24 VDC regulated
Operational	
Operating Humidity	5-95% RH(non-condensing)
Operating Ambient Temperature	-0°F to +120°F
Storage Temperature	-40°F to +160°F
Alarm and Fault Information	
Trip Setting	5% increments by use of shorting tab
Alarm Indication	Red LED
Fault Indication	White LED (at 1.4 mA or below)
Accuracy	LED readout provides 5% of full scale resolution. Trip accuracies at these 5% increments are within +/- 1% of setpoint.
Time Delays	Alarm relay is 10 second delay on, 30 second delay for for reset after alarm condition clears
Power Up Time Delay	On application of power, alarm relay will be held in the normal state for one minute to allow the sensor to stabilize
Cable Requirements	#18/3 shielded cable (Belden #8770) for runs up to 1,000 feet. High current draw sensors may require larger cable. Contact Honeywell Analytics for details.
Dimensions	6" x 4" x 3.5"
Enclosure	NEMA 1, gasketed 16-gauge steel
Weight	3 lbs.
Possible Applications	
Used with Honeywell Analytics Main Readouts	<p>GM-10 Readout Unit located in maintenance office</p> <p>GM-JR Located outside machine room</p> <p>Sensor Sensor in machine room</p>
Used with Computer	<p>Customer Computer</p> <p>GM-JR Monitor at selected locations</p> <p>Sensor</p>

As world leaders in gas detection solutions, Honeywell Analytics' Manning range of gas detection systems has been designed to provide efficient, practical and cost-effective equipment to protect people from a variety of forms of hazardous gas and to efficiently monitor and control indoor air quality. The equipment is also simple to install and easy to operate and maintain.

The Manning range of fixed gas detection and accessories



Manning EC-F9-NH3



Manning Vent Line



Manning AirScan iR



Manning IR-F4-NH3



Manning GM-10

Manning Line of Sensors

Designed for both industrial and commercial environments, the Manning line of sensors are produced to withstand the harshest of environments. The electrochemical and infrared sensors can be configured with the optional ATMOS[®] equipped technology that allows them to meet all of their performance specifications down to -50° F and in condensing humidity environments or during washdown.

Find out more

For more information on Honeywell Analytic's Manning line of products, visit www.honeywellanalytics.com or contact us at 800 563 2967.

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Manning GM-4000 Optional Accessories

The optional accessories for the GM-4000 enhance the operation of this already powerful alarm unit.



Power Supply



Calibration Kit

The do-it-yourself solution for recommended calibration of Manning fixed line of gas detection products enables the product to be recertified for the required sensor recalibration. This easy to use kit contains everything needed for simple calibration including two 17 liter gas cylinders containing applicable gas, a calibration adaptor, flow meter, valve assembly, and tubing housed in a durable carrying case.

Honeywell