



# LOW COST TRANSMITTER

Gas Detection For Life

M-Series



## Features

- Water/dust resistant housing
- Available for CO and H<sub>2</sub>S
- Long life sensors (2 + years typical)
- Competitively priced
- Compact design

## Applications

- Water & wastewater treatment plants
- Pulp & paper mills
- Gas, telephone & electric utilities
- Parking garages
- Manufacturing facilities
- Loading docks

Some gas monitoring requirements are basic but important. The RKI M-Series transmitter is a highly reliable and very cost-effective 4-20 mA transmitter for the detection of carbon monoxide and hydrogen sulfide. This transmitter operates from a 24 VDC (11 VDC to 30 VDC) power source and provides a 4–20 mA output signal, which can be connected to a wide variety of RKI or third party controllers. The M-Series transmitters are built for use in either indoor or semi-enclosed areas.

The electronics are protected inside a plastic enclosure to avoid damage from mechanical abuse, water, dust or corrosion. Sensors for the M-Series have a long life-span that typically last two to three years.

Field calibrations are very basic and can be completed by a single person. The zero and calibration functions for the M-Series are performed by simply adjusting potentiometers on the amplifier board. The amplifier board is equipped with easily accessible test jacks for the connection of a voltmeter. The voltmeter is used to view sensor response while the calibration gas is being applied and the potentiometers are adjusted with a screwdriver.

# M-Series Transmitter

Part #	H2S 65-2424RK	CO 65-2434RK
<b>Measuring Ranges</b>	0 - 100 ppm H <sub>2</sub> S	0 - 300 ppm CO
<b>Operating Voltage</b>	11 VDC to 30 VDC	
<b>Max Current Draw</b>	25 mA (2 wire system)	
<b>Signal Output</b>	4 mA at 0 ppm H <sub>2</sub> S 20 mA at 100 ppm H <sub>2</sub> S	4 mA at 0 ppm CO 20 mA at 300 ppm CO
<b>Response Time</b>	45 seconds to 90% of concentration	30 seconds to 90% of concentration
<b>Operating Environment</b>		
<i>Location</i>	Indoors or semi-enclosed areas	
<i>Temperature</i>	0 to 120° F	
<i>Humidity</i>	0 - 99% RH, non-condensing	
<b>Housing</b>	Plastic, water/dust resistant enclosure 2.5" W x 4.0" H x 1.5" D	
<b>Sensor</b>		
<i>Type</i>	Electrochemical	
<i>Life Expectancy</i>	2 years normal service when intermittently exposed to H <sub>2</sub> S	2 to 3 years normal service
<b>Controls</b>		
<i>Zero</i>	Sets transmitter output to 4 mA with zero output from H <sub>2</sub> S sensor	Sets transmitter output to 4 mA with zero output from CO sensor
<i>Span</i>	Sets transmitter output to 20 mA with 100 ppm output from H <sub>2</sub> S sensor	Sets transmitter output to 20 mA with 300 ppm output from CO sensor
<b>Tools Needed</b>	Screwdriver and voltmeter used to make adjustments	
<b>Warranty</b>	One year on electronics, one year on sensor.	

Specifications subject to change without notice.

Made in the USA