

LOW COST TRANSMITTER

M-Series

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 semienclosed 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.



Features

- Water/dust resistant housing
- Available for CO and H₂S
- 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

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