



# Low Cost Transmitter

Gas Detection For Life

M-Series



## Features

- Water/dust resistant housing
- Available for H<sub>2</sub>S and CO
- 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

The RKI low cost CO/H<sub>2</sub>S transmitter is a highly reliable and very cost effective basic 4-20 mA transmitter for the detection of carbon monoxide and hydrogen sulfide. The electronics are protected inside a plastic enclosure to avoid damage from mechanical abuse, water, dust or corrosion. Sensors for H<sub>2</sub>S and CO are long life and typically last 2 - 3 years.

The transmitter operates from 24 VDC (11VDC to 30 VDC), and provides a 4-20 mA signal which can be connected to a wide variety of controllers. The low cost CO/H<sub>2</sub>S can be used either indoors or in semi-enclosed areas.

The only tools required to calibrate the low cost CO/H<sub>2</sub>S transmitter are a voltmeter, screwdriver, and cal gas. The zero and calibration functions are performed by adjusting potentiometers on the amplifier board. The amplifier board has test jacks for the connection of a voltmeter for calibration purposes, and the sensor response is viewed on the voltmeter as a 100mV to 500mV signal. Field calibration can be performed easily and quickly by one person.

# Low Cost Transmitter

Part #	H <sub>2</sub> S 65-2424RK	CO 65-2434RK
Min Operating Voltage	11 VDC	
Max Operating Voltage	30 VDC	
Max Current Draw	25 mA (2 wire system)	
Signal Output	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
Response Time	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	
Housing	Plastic, water/dust resistant enclosure 2.5" W x 4.0" H x 1.5" D	
<b>SENSOR</b>		
Type	Electrochemical	
Life Expectancy	2 years normal service when intermittently exposed to H <sub>2</sub> S	2 to 3 years normal service
<b>CONTROLS</b>		
Zero	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
Span	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
TOOLS NEEDED	Screwdriver and voltmeter used to make adjustments	

Specifications subject to change without notice.

Made in the USA

## RKI Instruments, Inc.



INSTRUMENTS

1855 Whipple Road  
Hayward, CA 94544



Certified AIR SAFETY  
2233 NW 23<sup>rd</sup> Ave.  
Portland, OR 97210  
Tel: 503-226-2109  
Fax: 503-226-0988

[info@certifiedAIRSAFETY.COM](mailto:info@certifiedAIRSAFETY.COM)  
[www.certifiedAIRSAFETY.COM](http://www.certifiedAIRSAFETY.COM)