

# Oxygen Sensor

## R65-2504RK-C

- Long life sensors (2+ years typical)
- Competitively priced
- Compact design
- Patented water repellent sensor coating

### Overview

The Control Equipment oxygen sensor / transmitter is a highly reliable, cost effective 4-20 mA transmitter. The electronics are encased inside a potted package to avoid damage from mechanical abuse or corrosion, and the amplifier is installed in a polycarbonate enclosure. The oxygen sensor utilizes an internal I.S. barrier, so is suitable for use in hazardous atmospheres.

The only tools required to calibrate the R65-2504RK-C are a voltmeter, screwdriver, and cal gas. The zero and calibration functions are performed by adjusting potentiometers on the amplifiers. The amplifier has test jacks for 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.

The R65-2504RK-C transmitter can be used either indoors or outdoors. The flame arrestors utilise a patented coating which makes them water repellent, and splash guards are also available for use in wet environments. The transmitter operates from 24 VDC (10.5VDC to 30 VDC), and provides a 4-20mA signal which can be directly connected to the Beacon Series Controllers and various other controllers.

### Specifications

<b>Sensor type</b>	Galvanic	<b>Connections</b>	2 Core, shielded, 1.5mm
<b>Measuring range</b>	0-25% Volume	<b>Operating voltage</b>	11 VDC to 30 VDC
<b>Response time</b>	20 Seconds to 90% of gas applied	<b>Output</b>	4 - 20mA
<b>Life expectancy</b>	2 to 3 years normal service	<b>Maximum current draw</b>	25 mA (2-wire system)
<b>Temperature range</b>	0 °C to 50 °C	<b>Enclosure</b>	Polycarbonate
<b>Humidity range</b>	0% to 99% non-condensing		



### Applications

- Laboratories
- Chemical storage buildings
- Water & wastewater treatment plants
- Gas, telephone & electric utilities
- Manufacturing facilities