

COMBUSTIBLE GAS SENSOR

Gas Detection for Life

R61-0203-02RK



Features

- Long life – 3 to 5 years
- Increased stability
- Stainless steel case
- Retro fits all existing installations
- New duct mount feature
- Built by Riken factory
- SAA Approved
- 3-Wire

Applications

- Petrochemical plants
- Power stations
- Telephone exchanges
- Boiler rooms
- Refineries
- Aerosol manufacturers
- Paint manufacturers
- Mining equipment

The R61-0203-02RK Sensor configuration consist of a sensor and a mechanical protector. The Combustible Gas Sensor, for diffusion sensing, is a highly reliable catalytic style sensor which is designed to give extended service even under extreme conditions. The combination palladium/platinum catalyst resists destruction by combustible gas levels above 100% LEL, and lead and sulphur compounds.

The sensor is enclosed in a 316 stainless steel shell and 316 sintered stainless steel flame arrestor, which is teflon coated. The stainless steel ensures high corrosion resistance, and the teflon covering on the flame arrestor resists the accumulation of dirt and dust. It should be realised that the sensor elements themselves are susceptible to breakage by shock and therefore the sensor should not be roughly handled prior to its installation. The R61-0203-02RK Sensor is rated ANZEx 09.3003U.

The R61-0203-02RK Combustible Sensor has a unique design feature which allows the mechanical protection (bell end) to be removed from the sensor. This allows the sensor to be easily duct mounted. For connected to a Beacon controller, a amplifier board is required.

Specifications:

Detection method	Catalytic Combustion	Temperature range	-45°C to 80°C
Measuring range	0 – 100% LEL	Humidity range	10% to 95% RH
Sampling method	Continuous Diffusion	Sensor Thread	1/2" BSP
Calibration	From remote calibration amplifier	Connections	3 wire, 1.5 mm
Max distance to sensor	30 meters	Operating Voltage	2.4 Volt
Repeatability	± 2% of full scale	Operating Current	385 mA for Methane, 345 mA for other gases
Linearity	± 5% - over 80% LEL	Sensor Certification	ANZEx 09.3003U
Response time	Less than 15 sec to 90% of gas applied		

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