

# COMBUSTIBLE GAS SENSOR

Gas Detection for Life

R61-0203-02RKFP



## Features

- Long life – 3 to 5 years
- Increased stability
- 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 R61-0203-02RKFP Sensor configuration consist of a 3-wire sensor and enclosure with terminal strips. The Combustible Gas Sensor type R61-0203-02RK, 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 .However, 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 enclosure is SAA approved and is rated Class I, IP 66, Zones 1 & 2. This combination makes the R61-0203-02RKFP a robust product which can be used in various applications.

## Specifications:

<b>Detection method</b>	Catalytic Combustion	<b>Temperature range</b>	-45°C to 80°C
<b>Measuring range</b>	0 – 100% LEL	<b>Humidity range</b>	10% to 95% RH
<b>Sampling method</b>	Continuous Diffusion	<b>Cable Entry</b>	20 mm Metric
<b>Calibration</b>	From remote calibration amplifier	<b>Connections</b>	3 wire shielded 1.5 mm
<b>Max distance to</b>	30 meters	<b>Junction box</b>	IP 66, AUS Ex 319
<b>Repeatability</b>	± 2% of full scale	<b>Operating Voltage</b>	2.4 Volt
<b>Linearity</b>	± 5% - over 80% LEL	<b>Operating Current</b>	385 mA for Methane, 345 mA for other gases
<b>Response time</b>	Less than 15 sec to 90% of gas applied	<b>Sensor Certification</b>	ANZEx 09.3003U

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