

COMBUSTIBLE GAS SENSOR

Gas Detection for Life

R65-2400RKFP



Features

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

Applications

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

The R65-2400RKFP Sensor configuration consist of a 4-wire sensor and enclosure with terminal strips. The Combustible Gas Sensor type R61-1040RK, 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 R65-2400RKFP a robust product which can be used in various applications.

The R65-2400RKFP can also be directly connected to the Beacon 200, but a amplifier board will be required for the connection to a Beacon 800.

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	Cable Entry	20 mm Metric
Calibration	From remote calibration amplifier	Connections	4 wire shielded 1.5 mm
Max distance to sensor	30 metres	Junction box	IP 66, AUS Ex 319
Repeatability	± 2% of full scale	Operating Voltage	6 Volt
Linearity	± 5% - over 80% LEL	Operating Current	385 mA for Methane, 345 mA for other gases
Response time	Less than 15 sec to 90% of gas applied	Sensor Certification	CENELEC Eex d IIC CSA, UL and FM Class I

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