

COMBUSTIBLE GAS SENSOR

Gas Detection for Life

R65-2400RKTR



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
- 4-Wire

Applications

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

The R65-2400RKTR Sensor configuration consist of a 4-wire sensor, amplifier and enclosure with terminal strips. The Combustible Gas Sensor type R61-1040RK (four wire), 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, 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 and 2. This combination makes the R65-2400RKTR a robust product which can be used in various applications.

The amplifier board has a 24 VDC input and a 4-20mA output, which make it easy to connect to any PLC, Scada or BMS system. This allows the sensor to be connected directly to any Beacon controller.

Specifications:

Detection method	Catalytic Combustion	Humidity range	10% to 95% RH
Measuring range	0 – 100% LEL	Cable Entry	20 mm Metric
Sampling method	Continuous Diffusion	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	Input	24 VDC
Linearity	± 5% - over 80% LEL	Output	4 – 20 mA
Response time	Less than 15 sec to 90% of gas applied	Operating Current	385 mA for Methane, 345 mA for other gases
Temperature range	-45°C to 80°C	Sensor Certification	CENELEC Eex d IIC CSA, UL and FM Class I

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