



COMBUSTIBLE GAS SENSOR

LEADERS IN GAS DETECTION

Since 1977

R61-0203-02RKTR Series



Features:

- Long life – 3 to 5 years
- Increased stability
- Retro fits all existing installations
- New duct mount feature
- Compatible with beacon controllers
- SAA approved
- 3-wire

Applications:

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

The R61-0203-02RKTR sensor configuration consist of a 3-wire sensor, amplifier and enclosure with terminal strips. The combustible gas sensor type R61-0203-02RKTR, 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 R61-0203-02RKTR a robust product which can be used in various applications.

The amplifier board has a 24 VDC input and a 4-20mA output, which enables easy connection to any PLC, Scada or BMS system. It can be directly mounted onto the Beacon 200 or Beacon 800 Controller. The Beacon can be directly wired to a variety of devices like alarm horns, buzzers, or lights.

Specifications:

Detection method	Catalytic Combustion	Humidity range	below 95% R.H. (non-condensing)
Measuring range	0 – 100% LEL	Cable Entry	20 mm Metric
Sampling method	Continuous Diffusion	Connections	3 wire shielded 1.5 mm
Max distance	30 meters from Amp	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
Temperature range	-45°C to 80°C	Sensor Certification	ANZEx 09.3003U-2
Service information	6 monthly Service & Calibration		

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