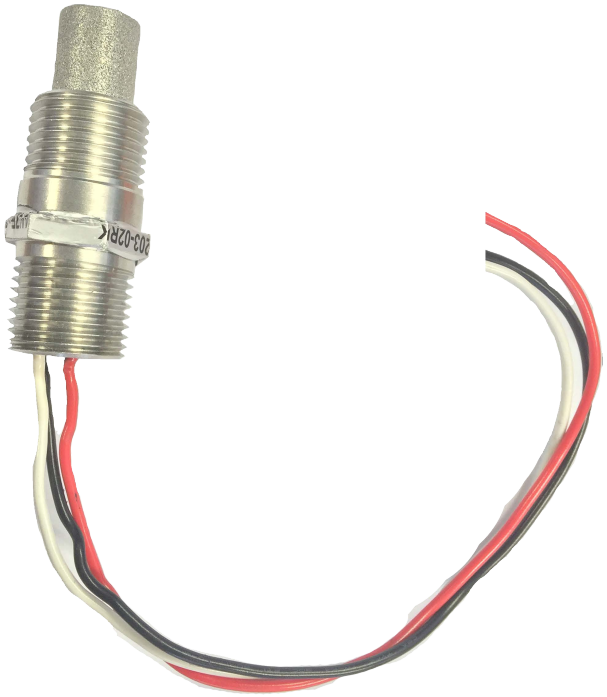
COMBUSTIBLE GAS SENSOR

LEADERS IN GAS DETECTION
Since 1977

R61-0203-02RK Series



Features:

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

Industry Applications:

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

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 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 connection to a Beacon controller, an amplifier board is required.

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
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	-45°C to 80°C	**Sensor Certification**	ANZEx 09.3003U
Junction Box	IP66, AUS Ex 319		