

# 61-X303LC Series Infrared Gas Detector

Ampcontrol's Ex d Group 2 certified infrared gas detectors have proven performance with reduced maintenance requirements and low cost of ownership.

Infrared gas detectors are superior to traditional catalytic sensors as there are no consumable sensor components, subsequently reducing the cost of ownership. The unit achieves high stability, requires minimal maintenance and can be calibrated without opening the enclosure. The electronic design is conducive to retrofitting conventional catalytic gas detectors, as the same field wiring can be used.

A "NO GAS" confidence test enables routine testing without the need for calibration test gases.

The Infrared range includes sensors for CH<sub>4</sub> and CO<sub>2</sub>. Special sensitivity types are also available including a Hydrocarbon unit that is used for defence and marine applications.

This is a non-display instrument.

## Gas Types

- Butane
- Diesel vapours
- Ethane
- Hydrocarbons
- Jet fuel vapours
- Methane
- Petrol vapours
- Propane

## Features

- + Immune to catalyst poisons
- + Not affected by high gas concentrations (100% v/v)
- + Low maintenance requirement
- + NO GAS confidence testing
- + Less routine calibration
- + Lowest cost of ownership
- + Corrosion proof
- + No moving parts
- + Not affected by humidity
- + 4-20mA source into 600 ohms
- + Temperature stable condition
- + Vibration tested
- + Insect proof (no slots, holes or apertures)
- + Retrofit using existing 3 wire connections
- + Duct mounting kit available



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## Specifications

Detection Method	IR Absorption
Sampling Method	Continuous diffusion (sample draw optional)
Measuring Range	0-100% Lower Explosive limit (LEL)
Accuracy	± 2% Full Scale (FS) Linearised
Repeatability	± 1% FS
Temperature Range	-30°C to +70°C
Humidity Range	0-99% Relative Humidity (Non-condensing)
Operating Voltage	11-28Vdc
Operating Current	135mA at 12Vdc/75mA at 24Vdc
Connections	3-Wire, 4-20mA (Source)
Construction Materials	Flame Arrestor: 316 Sintered Stainless Steel Guard: UNS30183 Stainless Steel Weather Shield: UV-resistant Reinforced Plastic
Weight Approx.	1.8kg
Electrical Hazardous Area	Ex d IIB T6 @Ta = +40°C; T4 @Ta = +60°C
Gas Type	Flammable Hydrocarbons
Response Time	<30 seconds to 90% of final reading (diffusion time included)