

## 4-20mA Infra-red Flammable Gas Sensor



- Low power consumption < 2 watts
- Sinter free failsafe operation
- Calibration free (SIL verification)
- Hydrocarbon detection 0 to 100% LEL
- LED based infra-red measurement
- Diffusion version *or*  
In line flow cell version for aspirators
- Ex Hazardous area approved (ATEX)
- Vibration & shock resistant
- MTBF of >30 years
- All stainless steel construction
- Weather proof to IP67
- Immune to effects of rain & mist
- Operating temperature options cover range from -40°C to + 65°C
- 18 to 32 vDC operation
- Full & extensive error reporting
- 15 year IR source warranty
- 3 wire connection
- User selectable, current sink or current source

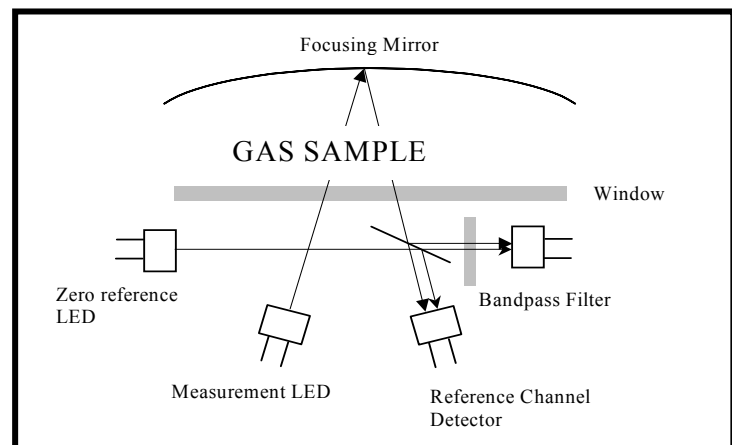
### Description

LEDPoint® family of products, features proven sensor technology and is tried, tested and approved by many blue chip users as well as SIRA, Shell Global Solutions and BP-Micropack. The sinter free LEDPoint® range is used extensively in aggressive offshore environments with over 2 MILLION HOURS of exposure, across a range of platforms and installations.

Each LEDPoint® 420 is individually calibrated for optimum performance and features a 15-year IR source warranty.

The LEDPoint® family of products use only a 10% contribution to a SIL2 system budget with a 52-week system check interval.

The LEDPoint® family consists of the AMGas dual beam, dual wavelength, infrared LED (light emitting diode) based gas sensor cell plus all drive electronics required to give a temperature corrected, linear output proportional to gas concentration.

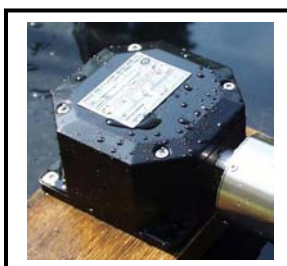


## Technical Data:

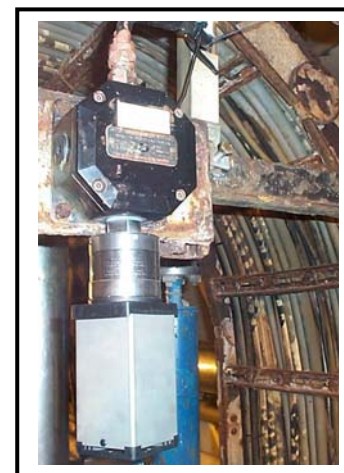
Detection ranges	0 – 120% LEL Calibrated for methane. Propane calibration option available
Operating temperature range	Standard unit -20°C to + 45°C (-40 °C & 65 °C temperature versions available)
Humidity	0 - 99% non-condensing
Gas detection performance	Meets or exceeds the requirements of BS EN61779-1 and BS EN61779-4: 2000 for stability and temperature response for methane calibration
Start up time	< 2 Minutes
Power supply	18 to 32 vDC
Power consumption	2 Watts maximum
Error reporting	Error reporting between 0 and 4 mA i/ 0mA - supply or electronics failure ii/ 1mA - low light level iii/ 2mA – clean optics
Target Gases	Responds to all gaseous aliphatic hydrocarbons
Connections	3 Wire. Selectable, current sink or current source. RS485 option
Construction	Stainless steel and acetyl
Dimensions	190 mm x 55 mm x 65mm
Weight	1.5kgm excluding splashguard
Mounting orientation	Vertical or horizontal with appropriate splashguard or flow through cell
Mounting method	M20 Fine Threaded screw for insertion in Hawke Exe junction box or similar
Electrical connections	Three wire through M20 Fine screw centre
Weather protection	Options i/ Splashguard for vertical or horizontal mounting for use in external off-shore environment ii/ Dust filter for internal environment iii/ Flow through cell for use in sample system or aspirator applications
Approvals	CE (Ex) II 2 G EEx m ia IIC T4 (-20 °C & 70 °C) (UL & CSA pending)



Optics Cleaning Kit



Optional Junction Box



Examples of LEDPoint® Offshore Installations

### AMGas Ltd

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