

KARF & SCOOT Catalytic

Fixed Gas Detector



Budget Solution



Fast Response Time



4-20 mA and Relay Outputs



ATEX and CE Certified

GD2G Catalytic

Fixed Gas Detector

OPTIMUM SOLUTION FOR HYDROCARBON GASES

It's a durable and high-performance budget solution for the flammable and explosive environments.

CONFIGURABLE & FAST

Thanks to its embedded software algorithm, it provides an excellent response time along with configurable relay outputs which creates flexibility for changing needs of different sectoral usages. It also has two relay outputs for easy integration to your industrial control and automation systems.

ATEX CERTIFIED

Suitable for use in Group II (Zone 2 and Zone 1) and ATEX certified as per international standards.

Operating Voltage	24VDC ±25%
Detection Range	0-100% LEL
Resolution	1% LEL
Response Time	<10s
Sensor Type	Catalytic (Pellistor)
Analog Output	4-20mA
Digital Output	3 Relays (NO or NC)
Environmentals Conditions	
Temperature	-20 ~ +60 °C
Pressure	86 ~ 106 kPa
Humidity	≤95 % RH
Weight	1 kg
Main Body	Aluminum
Sensor Capsule	Stainless Steel
ATEX Classification	II 2 G Ex d IIC Gb T6
IP Protection Level	IP65
Warranty	2 Years

LIST OF GASES&VAPORS

Methane	CH ₄	Acetone	C ₃ H ₆ O	Cyclohexane	C ₆ H ₁₂
Propane	C ₃ H ₈	Methyl Ethyl Ketone	C ₄ H ₈ O	Cyclopentane	C ₅ H ₁₀
n-Butane	C ₄ H ₁₀	Toluene	C ₇ H ₈	Iso-Butane	C ₄ H ₁₀
n-Pentane	C ₅ H ₁₂	Ethyl Acetate	C ₄ H ₈ O ₂	Iso-Octane	C ₈ H ₁₈
n-Hexane	C ₆ H ₁₄	Hydrogen	H ₂	Iso-Propanol	C ₃ H ₈ O
n-Heptan	C ₇ H ₁₆	Unleaded Petrol	N/A	n-Propanol	C ₃ H ₈ O
n-Octane	C ₈ H ₁₈	Ethylene	C ₂ H ₄	Styrene	C ₈ H ₈
Methanol	CH ₃ OH	Acetylene	C ₂ H ₂	Propylene	C ₃ H ₆
Ethanol	C ₂ H ₅ OH	Acetic Acid	C ₂ H ₄ O ₂	Xylene	C ₈ H ₁₀

KARF & SCOOT

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KARF & SCOOT

Infrared

Fixed Gas Detector



Long Life-Span



**Reliable
Measurement**



Durable



**ATEX and CE
Certified**

GD2G Infrared

Fixed Gas Detector

RELIABLE MEASUREMENT

GD2G Infrared Gas Detectors have a remarkable precision in detection along with its durable structure. It does not require frequent calibration for accurate detection of flammable and explosive gases.

IMMUNE TO HARSH CONDITIONS

Infrared sensors do not measure by physically reacting to gases as catalytic and electrochemical sensors do, but instead; it utilizes infrared light-waves to detect gas leaks.

LONG LASTING SOLUTION

GD2G Infrared Gas Detectors have been designed as a long-lasting solution for demanding industrial environments.

Operating Voltage	24VDC ±25%
Detection Range	0-100% LEL*
Resolution	1% LEL*
Response Time	<30s
Sensor Type	Infrared
Analog Output	4-20mA
Digital Output	3 Relays (NO or NC)
Environmentals Conditions	
Temperature	-20 ~ +60 °C
Pressure	86 ~ 106 kPa
Humidity	≤95 % RH
Weight	1 kg
Material	Aluminum
Sensor Capsule	Stainless Steel
ATEX Classification	II 2 G Ex d IIC Gb T6
IP Protection Level	IP65
Warranty	2 Years
*PPM or Vol% for Carbondioxide.	

LIST OF GASES&VAPORS

Methane	CH ₄	Cyclohexane	C ₆ H ₁₂	Iso-butylene	C ₄ H ₈
Propane	C ₃ H ₈	Cyclopentane	C ₅ H ₁₀	Methyl Ethyl Ketone	C ₃ H ₈ O
Carbon Dioxide	CO ₂	Difluoroethane	C ₂ H ₄ F ₂	N-Butane	C ₄ H ₁₀
Acetone	C ₃ H ₆ O	Dimethyl Ether	C ₂ H ₆ O	Pentane	C ₅ H ₁₂
Benzene	C ₆ H ₆	Ethane	C ₂ H ₆	Propylene	C ₃ H ₆

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KARF & SCOOT

Electrochemical Fixed Gas Detector



Highest Safety

GD2G Electrochemical Fixed Gas Detector

CUTTING-EDGE SAFETY

It's a durable and cutting-edge safety solution for all gas detection needs in toxic environments.

FLEXIBILITY FOR NEEDS

Thanks to its embedded software algorithm, it provides a strictly safe measurement along with configurable relay outputs which create flexibility for changing needs of different sectoral usages.

ATEX CERTIFIED

Suitable for use in Group II (Zone I and Zone II) and ATEX certified as per international standards.

Operating Voltage	24VDC ±25%
Measurement	ppm *
Resolution	1%
Response Time	<30s *
Sensor Type	Electrochemical
Analog Output	4-20mA
Digital Output	3 Relays (NO or NC)
Environmentals Conditions	
Temperature	-20 ~ +60°C
Pressure	86 ~ 106 kPa
Humidity	≤95 % RH
Weight	1 kg
Main Body	Aluminum
Sensor Capsule	Stainless Steel
ATEX Classification	II 2 G Ex d IIC Gb T6
IP Protection Level	IP65
Warranty	2 Years

*Measurement range and resolution depend on the detected gas. Please contact us for more information.

LIST OF GASES&VAPORS

Carbon Monoxide	CO	Nitrogen Dioxide	NO ₂	Nitrogen Monoxide	NO
Hydrogen Sulfide	H ₂ S	Ammonia	NH ₃	Sulfur Dioxide	SO ₂
Formaldehyde	CH ₂ O	Chlorine	Cl ₂	Oxygen	O ₂



Configurable
Relay Outputs



Sensor-Adjust
Technology
(SAT®)



ATEX and CE
Certified

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