

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	24V ±25% VDC
Detection Range	0-100% LEL
Resolution	1% LEL
Response Time	<30s
Sensor Type	Infrared
Analog Output	4-20mA
Digital Output	Relays (NO and 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

LIST OF GASES&VAPORS

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

**KARF &
SCOOT**



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**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.

CERTIFIED BY ATEX

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

Operating Voltage	24V ±25%VDC
Detection Range	0-100% LEL
Resolution	1% LEL
Response Time	<10s
Sensor Type	Catalytic (Pellistor)
Analog Output	4-20mA
Digital Output	2 Relays (NO and 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

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-Butanol	C ₄ H ₁₀ O
n-Hexane	C ₆ H ₁₂	Hydrogen	H ₂	Iso-Octane	C ₈ H ₁₈
n-Heptan	C ₇ H ₁₆	Unleaded Petrol	N/A	Iso-Pentane	C ₅ H ₁₂
n-Octane	C ₈ H ₁₈	Ethylene	C ₂ H ₄	n-Propanol	C ₃ H ₈ O
Methanol	CH ₃ OH	Acetylene	C ₂ H ₂	Styrene	C ₈ H ₈
Ethanol	C ₂ H ₅ OH	Acetic Acid	C ₂ H ₄ O ₂	Propylene	C ₃ H ₆
Iso-Propanol	C ₃ H ₈ O	Butyl Acetate	C ₆ H ₁₂ O ₂	Xylene	C ₈ H ₁₀

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KARF & SCOOT

Electrochemical Fixed Gas Detector



Highest Safety



**Configurable
Relay Outputs**



**Sensor-Adjust
Technology
(SAT®)**



**ATEX and CE
Certified**

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	24V ±25% VDC
Measurement	ppm
Resolution	1% ppm
Response Time	<30s
Sensor Type	Electrochemical
Analog Output	4-20mA
Digital Output	2 Relays (NO and 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

LIST OF GASES&VAPORS

Carbon Monoxide	CO	Nitrogen Dioxide	NO ₂	Nitrogen Monoxide	
Hydrogen Sulfide	H ₂ S	Ammonia	NH ₃	(nitrogen oxide)	NO
Formaldehyde	CH ₂ O	Chlorine	CL ₂	Sulfur Dioxide	SO ₂
				Oxygen	O ₂

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KARF & SCOOT Flame Detectors



False-Alarm Immunity



Ergonomic and Durable Design



Fast Response Time



ATEX and CE Certified

IRT Flame Detectors

(IRT-021-A & IRT-110-K)

THE MOST ACCURATE DETECTION

Flame Detectors utilize three infrared sensors to eliminate any false alarms. Thanks to its intelligent false-alarm immunity algorithm, it cannot be affected by misleading industrial factors such as heaters, welding sparks, halogen lamps, solar radiation, and reflected rays.

RAPID RESPONSE TIME

IRT model flame detectors are designed to give the fastest response in case of danger. The fastest solution to the safety of your employees and your facility!

ERGONOMIC AND DURABLE DESIGN

IRT Flame Detectors are the lightest flame detectors in the world and are designed to work in the most demanding industrial environments with their stainless steel body.

Category	Flame Detector (IR3/UV)
Material	Aluminum Anodizing
Color	Black
Power	DC24V ±20% (19. ~28.8V)
Electric current	Stand by: 40mA Operation: 50mA
Contact output	ON / OFF
Communication Port	RS-485 / 4~20mA (Option)
Operating temperature	-40°C / +85°C
Operating humidity	0 ~ 95%
Area of Application	Indoor / Outdoor
Size	Diameter: 50mm Length: 43mm
Weight	430g (Cable Gland included)
Window	Sapphire

Category	Flame Detector (IR3)
Material	Stainless steel (SUS-316L)
Color	Metal Silver
Power	DC24V ±20% (19. ~28.8V)
Electric current	Stand by: 40mA Operation: 50mA
Contact output	ON / OFF
Communication Port	RS-485 / 4~20mA (Option)
Operating temperature	-40°C / +85°C
Operating humidity	0 ~ 95%
Area of Application	Indoor / Outdoor
Size	Diameter: 56mm Length: 42mm
Weight	650g (Cable Gland included)
Window	Sapphire
Explosion Proof	Ex d IIC T6 Ex tD A21 IP67 T85°C

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