

30J-P1

GAS SENSOR

Safe Area Detector Head / Junction Box Assembly

Specification Sheet
ref C1274A

- FLEXIBLE OUTPUT OPTIONS
- ADDRESSABLE OR STAND ALONE
- HYPER TERMINAL COMMUNICATIONS RS232 LINE DATA AND SET UP WITH 232 ADAPTER
- DATA LOGGING
- OPTIONAL ALARM RELAYS
- OPTIONAL STATUS DISPLAY
- ROBUST AND WEATHER-PROOF



The 30J enclosure has been designed to allow quick and easy access to its interior by adjustment of two allen screws, this factor is a major consideration when large system service and calibrations are being carried out.

The detector is robust and weather-proof with improved response times due to the four mounting spacers allowing increased air movement around the detector these spacers also improve the mounting of the unit particularly on circular pillars typically found in car parks.

Power Supply

15 to 30vDC 24v nominal

Outputs

3 wire - 4~20mA

4 wire - CANbus

Relays (optional)

Low alarm S.P.C.O 0.5A @30vDC

High alarm S.P.C.O

Fault alarm S.P.C.O / overrange

Inhibit option during servicing

Logging

Intervals - one minute to one hour

Storage - 2,880 readings

Temperature

-15°C to 55°C

Humidity

0°C to 99% RH - non condensing

DETECTOR HEAD

Type – P1 Safe area use

Ingress Protection

IP63, + Universal fitting IP65

Material

ABS - black

Sensor Inserts

4 series type

Electrochemical

Infra Red

Semiconductor

Pellistor - Catalytic

JUNCTION BOX

Type - 30J Safe area use only

Ingress Protection

IP64

Material

ABS Flame retardent FR40

Lid Screws M4SS

Finish

Signal White RAL 9003

Weight

380gms

Entries

Rear 5-20mm knock outs

Sides, Top, Bottom - not specified

Mounting

Standoffs - M4 or No 8 screws

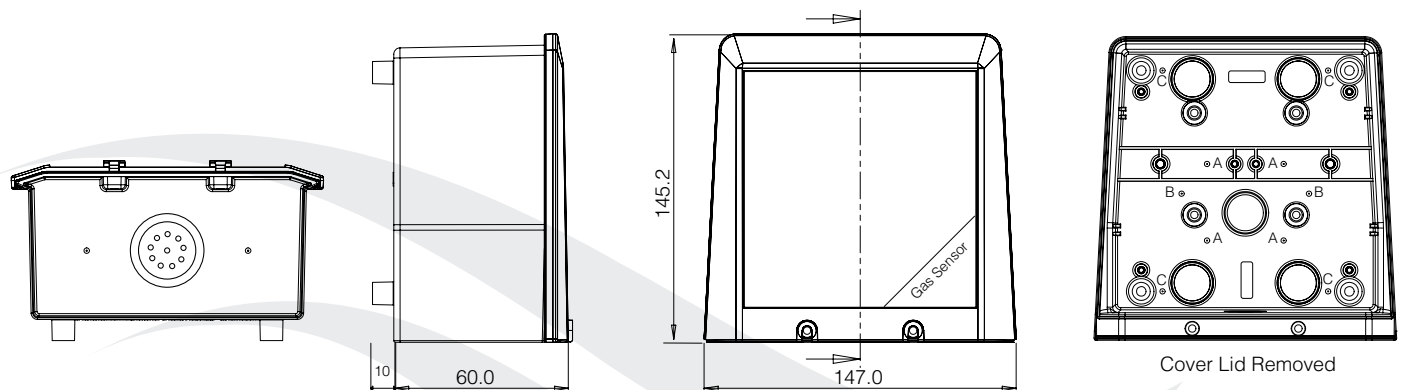
Drill at (C) when standoffs removed

Conduit box - drill at (A) 4.5mm

Surface mount box - drill at (B) 4.5mm

EU Design No.

01359723-0001



C1508

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TOXIC GASES - STANDARD RANGE

COMPOUND	Chemical Symbol	Relative Density Air =1	Sensor Location	Total Operating Range	Standard Range	A1	A2	Cross Sensitive Detectable Gases
Oxygen	O ₂	1.105	1.5mtr	0~25% Vol.	0~25% Vol.	19%	17%	
Carbon Monoxide	CO	0.967	1.5mtr	0~2000ppm	0~250ppm	30ppm	200ppm	Ethylene
Hydrogen Sulphide	H ₂ S	1.188	Lowest Level	0~500ppm	0~50ppm	5ppm	10ppm	
Sulphur Dioxide	SO ₂	2.263	Lowest Level	0~500ppm	0~10ppm	2ppm	5ppm	
Nitrogen Oxide	NO	1.036	1.5mtr	0~1500ppm	100ppm	25ppm	35ppm	
Nitrogen Dioxide	NO ₂	2.62	Lowest Level	0~200ppm	0~10ppm	3ppm	10ppm	
Chlorine	Cl ₂	2.473	Lowest Level	0~250ppm	0~10ppm	0.5ppm	1ppm	
Hydrogen	H ₂	0.069	Highest Level	0~2000ppm	0~2000ppm	250ppm	500ppm	
Hydrogen Cyanide	HCN	0.94	1.5mtr	0~100ppm	25ppm	5ppm	10ppm	
Hydrogen Chloride	HCl	1.26	Lowest Level	0~200ppm	10ppm	2ppm	5ppm	
Ammonia	NH ₃	0.59	Highest Level	0~200ppm	100ppm	25ppm	35ppm	
Ozone	O ₃	1.66	Lowest Level	0~5ppm	2ppm	0.1ppm	0.3ppm	
Ethylene Oxide	C ₂ H ₄ O	1.49	Lowest Level	0~100ppm	25ppm	5ppm	10ppm	Ethanol : MEK : Toluene :
Phosphine	PH ₃	1.184	Lowest Level	0~20ppm	1ppm	0.2ppm	0.3ppm	Arsine : Diborane : Silane : Germane
Carbon Dioxide	CO ₂		Lowest Level	0~2%	0~2%	0.50%	1.50%	

FLAMMABLE GASES - STANDARD RANGE

COMPOUND	Chemical Symbol	Relative Density Air =1	Sensor Location	Total Operating Range	Standard Range	A1	A2	Cross Sensitive Detectable Gases
Hydrogen	H ₂	0.069	Highest Level	0~100% LEL	4%	20%	40%	
Methane	CH ₄	0.55	Highest Level	0~100% LEL	5%	20%	40%	
Ethane	C ₂ H ₆	1.048	Lowest Level	0~100% LEL	3%	20%	40%	
Propane	C ₃ H ₈	1.55	Lowest Level	0~100% LEL	2%	20%	40%	
Butane	C ₄ H ₁₀	2.11	Lowest Level	0~100% LEL	1.80%	20%	40%	
Pentane	C ₅ H ₁₂	2.48	Lowest Level	0~100% LEL	1.40%	20%	40%	



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