

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 carparks. Standard 4~20mA signalling with CANbus address enables the sensors to be networked via the WatchGas Combi control system or customer preferred monitoring system.

## Key Features

- Flexible output options
- CANbus, 4~20mA output
- Addressable or stand alone
- Hyperterminal communications RS232 line data and set up with 232 adapter
- Data logging
- Optional alarm relays
- Backlit alpha numeric full status display
- Robust and weatherproof



## GENERAL SPECIFICATIONS

<b>Power Supply</b>	15 to 30vDC 24v nominal
<b>Outputs</b>	3 wire – 4~20mA 4 wire – CANbus Relays (optional) Low alarm S.P.C.O High alarm S.P.C.O Fault alarm S.P.C.O / overrange Rating 0.5A @30vDC
<b>Display (Optional)</b>	2 line alpha numeric back lit status display: <ul style="list-style-type: none"> <li>• gas type</li> <li>• concentrating units</li> <li>• alarm levels</li> <li>• alarm status (low/high/over range)</li> <li>• sensor ID</li> </ul>
<b>Sounder/Relay (optional)</b>	Single relay – low/high alarm selectable S.P.C.O 0.5A @30vDC Sounder – not less than 85dB @ 30 cm
<b>Logging</b>	Intervals – variable time Roll over/stop Storage – 2,880 readings
<b>Temperature</b>	-15°C to 55°C
<b>Humidity</b>	<b>Pellistor-catalytic</b> 0 - 99% RH non condensing <b>Electrochemical</b> 5 - 95% RH non condensing <b>Infrared</b> 0 - 95% RH non condensing

### JUNCTION BOX Type - 15/30J safe area use only; 15J - shallow box (S); 30J - deep box (D)

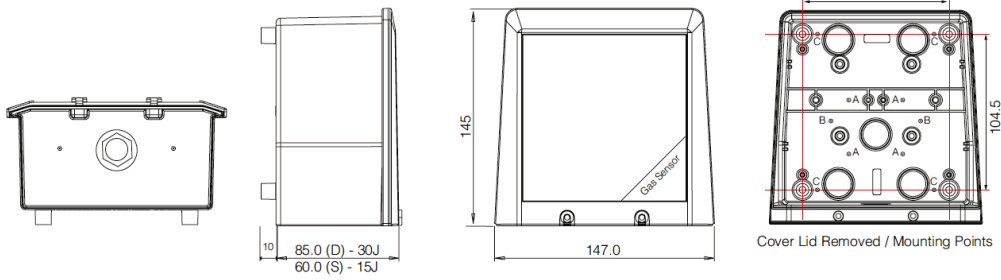
<b>Ingress Protection</b>	IP64
<b>Material</b>	ABS Flame retardent FR40 Lid Screws M4SS
<b>Finish</b>	Signal White RAL 9003
<b>Weight</b>	380gms
<b>Entries</b>	Rear 5-20mm knock outs Sides, Top, Bottom - not specified
<b>Mounting</b>	Standoffs - M4 or No 8 screws Drill at (C) when standoffs removed Conduit box - drill at (A) 4.5mm Surface mount box - drill at (B) 4.5mm
<b>EU Design No.</b>	01359723-0001

## DETECTOR HEAD SPECIFICATIONS

	F1	F6	P1	P2
<b>Certification</b>	ATEX / IECEx	ATEX / IECEx		
<b>Ingress Protection</b>	IP63 + Universal fitting IP64	IP63 + Universal fitting IP64	IP63 + Universal fitting IP65	IP63 + Universal fitting IP64
<b>Material</b>	Stainless Steel 316 S16	Stainless Steel 316 S16	ABS – black	ABS – black
<b>Weight</b>	166gms	35gms		
<b>Dimensions</b>	Length 32 mm, Dia 33 mm			
<b>Sensor Inserts</b>	<b>4 series</b> Electrochemical Infra-red Semiconductor Pellistor-catalytic PID	<b>Pellistor-catalytic:</b> flammable 0 – 100% LEL – 170mA	<b>4 series type</b> Electrochemical Infra-red Semiconductor Pellistor-catalytic PID	<b>7 series type</b> Electrochemical
<b>Accessories – Optional</b>	Collector Cone + Universal Fitting Universal Fitting (test gas applicator/spray deflector) Water Shield – stainless steel Flow Block – nylatron Flow Block – stainless steel Duct Mount Kit Detector Head Weather Shield F1 Sensor Thermal Jacket	Collector Cone + Universal Fitting Universal Fitting (test gas applicator/spray deflector) Flow Block Detector Head Weather Shield	Collector Cone + Universal Fitting Universal Fitting (test gas applicator/spray deflector) Flow Block Duct Mount Kit Detector Head Weather Shield	Collector Cone + Universal Fitting Universal Fitting (test gas applicator/spray deflector) Flow Block Duct Mount Kit Detector Head Weather Shield

## GASSES

Gasses	Measuring Range	Detector head	
<b>Flammable Gases</b>	<b>LPG</b>	0~100% LEL Catalytic	F1
	<b>Kerosene</b>	0~100% LEL Catalytic	F1
	<b>Hydrocarbons</b>	0~100% LEL Catalytic	P1
	<b>Flammable 0-100% Vol.</b>	Thermal Conductivity 0~100% Vol.	F1
	<b>IR FLAM Hydrocarbon</b>	0~100% LEL 0~100 %Vol.	F1
<b>O<sub>2</sub> Oxygen</b>	0~25% Vol Electrochemical	P1	
<b>CO Carbon Monoxide</b>	0~200ppm Electrochemical	P1	
<b>H<sub>2</sub>S Hydrogen Sulfide</b>	0~50ppm Electrochemical	P1	
	0~1000ppm Electrochemical	P1	
<b>SO<sub>2</sub> Sulphur Dioxide</b>	0~5ppm Electrochemical	P1	
<b>NO<sub>2</sub> Nitrogen Dioxide</b>	0~5ppm Electrochemical	P1	
<b>H<sub>2</sub> Hydrogen</b>	0~2000ppm Electrochemical	P1	
<b>Cl<sub>2</sub> Chlorine</b>	0~5ppm Electrochemical	P1	
<b>HCN Hydrogen Cyanide</b>	0~10ppm Electrochemical	P1	
<b>NO Nitric Oxide</b>	0~10ppm Electrochemical	P1	
<b>HCl Hydrogen Chloride</b>	0~10ppm Electrochemical	P1	
<b>NH<sub>3</sub> Ammonia</b>	0~100ppm Electrochemical	P1	
	0~1000ppm Electrochemical	P1	
<b>ETO Ethylene oxide</b>	0~25ppm Electrochemical	P1	
<b>HF Hydrogen Fluoride</b>	0~10ppm Electrochemical	P1	
<b>O<sub>3</sub> Ozone</b>	0~1ppm Electrochemical	P1	
<b>F<sub>2</sub> Fluorine</b>	0~1ppm Electrochemical	P1	
<b>ClO<sub>2</sub> Chlorine Dioxide</b>	0~1ppm Electrochemical	P1	
<b>N<sub>2</sub>H<sub>4</sub> Hydrazine</b>	0~1 ppm - Electrochemical	P1	
<b>PID 10.6 eV Range</b>	Linear range: 200ppm Maximum over-range: 4000ppm	P1	
<b>Aspirated Safe Sensor</b>	0~1000ppm Infrared	-	
<b>H<sub>2</sub>O<sub>2</sub> Hydrogen Peroxide</b>	0~100ppm nominal, 200ppm max over-range 0~500ppm max over-range 1000ppm	P2	
<b>Refrigerant</b>	Semiconductor ppm	P1	
<b>Aspirated Cool Sensor (Refrigerant)</b>	0~1000ppm Infrared	-	
<b>NH<sub>3</sub> Ammonia</b>	0~200ppm - Semiconductor	P1	
<b>IR CO<sub>2</sub></b>	CO <sub>2</sub> 0~5000 ppm 0~2 %vol.(Standard) 0~10 %vol. (Max Range)	F1	
	CO <sub>2</sub> 0~100 %vol.	JF1	



Optional display