

# GG2 MONITORING SOLUTION

## Environmental Monitoring

### Description

The Gasguard 2 (GG2) monitoring solution comprises an intrinsically safe GG2 Display Module which allows for the display and transmission of sensor data and system information. The Display Module interfaces to a range of GG2 Detectors for monitoring the atmospheric concentration of the target gas. Ampcontrol supplies a range of accessories for installing, operating and configuring the GG2 Detectors.

The GG2 Display module is housed within an IP66 rated stainless steel enclosure and is available in three variants: a glanded display supporting iMAC/RS485 communication and two pluggable versions supporting 4-20mA+iMAC and 4-20mA+RS485 communication. Refer to the equipment list below for part numbers.

Ampcontrol's range of GG2 Detectors include:

- Electrochemical Detectors
  - Carbon Monoxide (CO)
  - Oxygen (O<sub>2</sub>)
  - Hydrogen Sulphide (H<sub>2</sub>S)
- Catalytic Detectors
  - Methane (CH<sub>4</sub>)
- Non Dispersive infra-red Detectors
  - Methane (CH<sub>4</sub>)
  - Carbon Dioxide (CO<sub>2</sub>)

Detectors are available individually or in kits with the GG2 Display. Refer to the equipment lists below for part numbers. An optional remote cable assembly is available for mounting GG2 Detectors up to 10 metres from the GG2 Display. Customised gas panels and systems are also available.

For more information, refer to the following Documents:

- GG2B023 GG2 Display User Manual
- GG2B011 GG2 Detector User Manual
- GG2B032 GG2 Communications User Manual
- GG2B033 GG2 Design, Installation and Maintenance Application Guide
- GGSB017 Display Module Technical Datasheet
- GG2B018 Catalytic Detector (CH<sub>4</sub>) Technical Datasheet
- GG2B019 Electrochemical Detectors (CO, O<sub>2</sub> & H<sub>2</sub>S) Technical Datasheet
- GG2B020 Non-Dispersive Infra-red Detectors (CH<sub>4</sub>, CO<sub>2</sub>) Technical Datasheet





### Equipment List – Detectors



Part Number	Description
177870	DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5%
177871	DETECTOR GASGUARD2 CATALYTIC METHANE 5%
177872	DETECTOR GASGUARD2 ELECTRO CHEMICAL OXYGEN 25%
177873	DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM

Detectors	
177874	DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM
180733	DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5%
180734	DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2%
190998	DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 100%
192855	DETECTOR GASGUARD2 ELECTRO CHEMICAL HYDROGEN SULPHIDE 50PPM
193071	DETECTOR GASGUARD2 ELECTRO CHEMICAL HYDROGEN SULPHIDE 100PPM

Equipment List – Displays	
	
Part Number	Description
178983	DISPLAY GASGUARD2 MODBUS
178984	DISPLAY GASGUARD2 IMAC
178985	DISPLAY GASGUARD2 GLANDED MODBUS/IMAC

Accessory List	
	
Part Number	Description
196370	KIT JUNCTION BOX REMOTE CONNECTOR GASGUARD2
196435	KIT CABLE REMOTE GASGUARD2 TYPE 2
177875	CUP CALIBRATION GASGUARD2
177876	COVER DUST CONNECTOR GASGUARD2
177878	KEY LOCKING GASGUARD2
177879	MANUAL USER GASGUARD2
178057	MANUAL USER GASGUARD2 DETECTOR
178994	MODULE CABLE CONNECTION REMOTE SENSOR GASGUARD2
179698	MANUAL USER GASGUARD2 DISPLAY
180225	COVER DUST DISPLAY GASGUARD2
190508	TOOL MAGNETIC CALIBRATION GASGUARD2
192859	CABLE ASSEMBLY GASGUARD2 HARTING PLUG 10M – (analogue+digital)
192860	CABLE ASSEMBLY GASGUARD2 HARTING PLUG 3M - (analogue+digital)
192861	CABLE ASSEMBLY GASGUARD2 HARTING PLUG 20M - (analogue+digital)
192862	CABLE ASSEMBLY GASGUARD2 HARTING PLUG 5M - (analogue+digital)
193101	CABLE ASSEMBLY GASGUARD2 4-20mA 2x HARTING PLUG 3 METRE

**Station List**



Part Number	Description
181545	GAS STATION GASGUARD2 BOUNDARY IMAC METHANE CAT 5% INTRINSICALLY SAFE ALARM
181546	GAS STATION GASGUARD2 IMAC METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 5% CARBON MONOXIDE 100PPM
181547	GAS STATION GASGUARD2 IMAC CARBON MONOXIDE 100PPM INTRINSICALLY SAFE ALARM
192033	GAS STATION GASGUARD2 IMAC METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 5% CARBON MONOXIDE 100PPM INTRINSICALLY SAFE ALARM
192369	GAS STATION GASGUARD2 BOUNDARY IMAC METHANE NDIR 5%
192375	GAS STATION GASGUARD2 IMAC CARBON MONOXIDE 50PPM INTRINSICALLY SAFE ALARM
192403	GAS STATION GASGUARD2 BOUNDARY IMAC METHANE CAT 5% INTRINSICALLY SAFE ALARM BULGIN
192404	GAS STATION GASGUARD2 IMAC CARBON MONOXIDE 50PPM INSTRINSICALLY SAFE ALARM BULGIN
192411	GAS STATION GASGUARD2 IMAC METHANE NDIR 5% OXYGEN 25% CARBON DIOXIDE 5% CARBON MONOXIDE
192491	GAS STATION GASGUARD2 GG CONTROLLER CARBON MONOXIDE CARBON DIOXIDE METHANE DIFFERENTIAL PRESSURE
192550	GAS STATION GASGUARD2 IMAC OXYGEN 25% CARBON MONOXIDE 100PPM
192551	GAS STATION GASGUARD2 IMAC METHANE CAT 5% OXYGEN 25% CARBON MONOXIDE 100PPM
192552	GAS STATION GASGUARD2 CARBON MONOXIDE 100PPM
192660	GAS STATION GASGUARD2 MODBUS CARBON MONOXIDE 50PPM CARBON DIOXIDE OXYGEN METHANE SPARE
192661	GAS STATION GASGUARD2 IMAC METHANE CAT 5%
192848	GAS STATION GASGUARD2 IMAC CARBON MONOXIDE 50PPM LIM
192849	GAS STATION GASGUARD2 IMAC CARBON MONOXIDE 100PPM LIM
193110	GAS STATION GASGUARD2 IMAC METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 5% CARBON MONOXIDE 100PPM SPARE
193173	GAS STATION GASGUARD2 SILBUS CARBON MONOXIDE 50PPM OXYGEN CARBON DIOXIDE 5% METHANE
193184	GAS STATION GASGUARD2 METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 5% CARBON MONOXIDE 100PPM HYDROGEN SULPHIDE 100PPM
193297	GAS STATION GASGUARD2 BOUNDARY IMAC DI4 INSTRINSICALLY SAFE ALARM CATALYTIC NO BYPASS SWITCH
195215	GAS STATION GASGUARD2 IMAC METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 2% CARBON MONOXIDE 50PPM
195980	GAS STATION GASGUARD2 MODBUS METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 2% CARBON MONOXIDE 100PPM
196444	GAS STATION GASGUARD2 IMAC OXYGEN INTRINSICALLY SAFE ALARM
193297	GAS STATION GASGUARD2 BOUNDARY IMAC DI4 INSTRINSICALLY SAFE ALARM CATALYTIC NO BYPASS SWITCH
195215	GAS STATION GASGUARD2 IMAC METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 2% CARBON MONOXIDE 50PPM
195980	GAS STATION GASGUARD2 MODBUS METHANE CAT 5% OXYGEN 25% CARBON DIOXIDE 2% CARBON MONOXIDE 100PPM

**iMAC Kits Bulkhead**



<b>Part Number</b>	<b>Description</b>
181602	KIT DETECTOR GASGUARD2 CATALYTIC METHANE 5% DISPLAY IMAC
181603	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM DISPLAY IMAC
181604	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM DISPLAY IMAC
181605	KIT DETECTOR GASGUARD2 EC OXYGEN 25% DISPLAY IMAC
181606	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5% DISPLAY IMAC
181607	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2% DISPLAY IMAC
181608	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5% DISPLAY IMAC

**Modbus Kits Bulkhead**



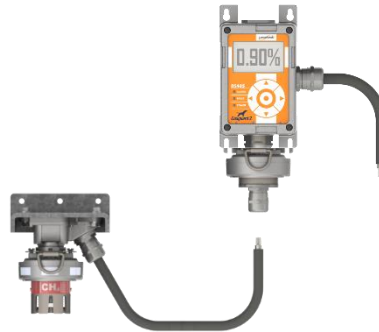
<b>Part Number</b>	<b>Description</b>
181609	KIT DETECTOR GASGUARD2 CATALYTIC METHANE 5% DISPLAY MODBUS
181610	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM DISPLAY MODBUS
181611	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM DISPLAY MODBUS
181612	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL OXYGEN 25% DISPLAY MODBUS
181613	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5% DISPLAY MODBUS
181614	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2% DISPLAY MODBUS
181615	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5% DISPLAY MODBUS

**Glanded Kits**  
**Analogue / iMAC / Modbus**



Part Number	Description
181595	KIT DETECTOR GASGUARD2 CATALYTIC METHANE 5% DISPLAY GLANDED MODBUS/IMAC
181596	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM DISPLAY GLANDED MODBUS/IMAC
181597	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM DISPLAY GLANDED MODBUS/IMAC
181598	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL OXYGEN 25% DISPLAY GLANDED MODBUS/IMAC
181599	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5% DISPLAY GLANDED MODBUS/IMAC
181600	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2% DISPLAY GLANDED MODBUS/IMAC
181601	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5% DISPLAY GLANDED MODBUS/IMAC
191971	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 100% DISPLAY GLAND

**Remote Glanded Kits**  
**Analogue / iMAC / Modbus**



Part Number	Description
197009	KIT DETECTOR GASGUARD2 CATALYTIC METHANE 5% DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC
197010	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC
197011	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC
197012	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL OXYGEN 25% DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC
197013	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5% DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC
197014	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2% DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC
197015	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5% DISPLAY REMOTE TYPE 2 GLANDED MODBUS/IMAC

**Remote iMAC Kits Bulkhead**



**Remote iMAC Kits Bulkhead**

<b>Part Number</b>	<b>Description</b>
197016	KIT DETECTOR GASGUARD2 CATALYTIC METHANE 5% DISPLAY REMOTE TYPE 2 IMAC
197017	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM DISPLAY REMOTE TYPE 2 IMAC
197018	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM DISPLAY REMOTE TYPE 2 IMAC
197019	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL OXYGEN 25% DISPLAY REMOTE TYPE 2 IMAC
197020	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5% DISPLAY REMOTE TYPE 2 IMAC
197021	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2% DISPLAY REMOTE TYPE 2 IMAC
197022	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5% DISPLAY REMOTE TYPE 2 IMAC

**Remote Modbus Kits Bulkhead**



<b>Part Number</b>	<b>Description</b>
197023	KIT DETECTOR GASGUARD2 CATALYTIC METHANE 5% DISPLAY REMOTE TYPE 2 MODBUS
197024	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 100PPM DISPLAY REMOTE TYPE 2 MODBUS
197025	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL CARBON MONOXIDE 50PPM DISPLAY REMOTE TYPE 2 MODBUS
197026	KIT DETECTOR GASGUARD2 ELECTRO CHEMICAL OXYGEN 25% DISPLAY REMOTE TYPE 2 MODBUS
197027	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED METHANE 5% DISPLAY REMOTE TYPE 2 MODBUS
197028	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 2% DISPLAY REMOTE TYPE 2 MODBUS
197029	KIT DETECTOR GASGUARD2 NONDISPERSIVE INFRARED CARBON DIOXIDE 5% DISPLAY REMOTE TYPE 2 MODBUS

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