

# WATCHGAS 102

Dual sensor gas alarm  
C1934



## KEY FEATURES

- Two sensor inputs  
single mV / single 4~20mA
- Traffic light status display
- Data logging
- Three alarm stages + relays
- Aspirated sensor option
- 4~20mA analogue output
- Weatherproof
- Internal or remote sensor options
- Front panel access to set up and maintenance of parameters

A fixed dual sensor gas alarm unit that meets the requirements for economic and reliable monitoring of gas levels in a wide range of environments, from commercial premises through to heavy industrial applications that may require hazardous area sensing.

The WatchGas 102 may be utilised as a standalone unit or as an addressable sensor forming part of the WatchGas Combi CANbus addressable network system and therefore offering the features of our most advanced system. Typical monitor locations are – public buildings, boiler plant rooms, swimming pools, water treatment works, H&V control systems, manufacturing and process plants.

## SPECIFICATIONS

WATCHGAS 102 DUAL SENSOR GAS ALARM	
MEASURING RANGE	Combustible Gas – LEL, % Vol, ppm Toxic Gas – ppm Oxygen – % vol – Depletion or Enrichment Any 4~20mA source input signal
INDICATORS	Two line alpha numeric display System Normal – Green / Blue display Alarms 1, 2, 3 – Red display Fault – Amber display
Audible Alarm	1, 2, 3 and Fault Alarms – mutable 85dB @ 10cm
Power Supply	24v nominal 18v to 30v DC Mains 100~240vAC 50/60 Hz The two voltages may be utilised simultaneously – standby supply

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Power Consumption	4 watts – full alarm
OUTPUTS	1, 2, 3 and fault alarm relays – SPCO normally de-energised – energised latched or unlatched options Relay 3 selectable:- Duplicate Relay 1, 2, 4 or resettable global alarm relay Relay 4 selectable:- Fault or resettable global alarm relay All contacts rated 3A – 230v AC Selectable inhibit active indicator or resettable sounder output – o/c 100mA – 24v DC (Y -Output) 4~20mA signal output, Sink/Source. CANbus Internal mains power supply 24vDC @1.2A available to user 500mA
ALARM SETTINGS	Digital setting (fully adjustable between zero and full scale) Delay to alarms 0~255s Relay off delays 0~255s
SENSOR TYPES	Catalytic Electrochemical Infra Red PID Semiconductor E-Stop
SENSOR INPUTS	(CH1) Bridge type direct 3 wire detector mV signal (Catalytic, IR, PID, Semiconductor, E-Stop) (CH2) 4~20mA analogue transmitter signal –source (Catalytic, Electrochemical, IR, PID, Semiconductor, E-Stop)
SENSOR CABLE	3 core standard, 2 core option for electrochemical transmitters, 1mm <sup>2</sup> screened – 500m
OPERATING TEMPERATURE	-15 to +50 °C
STORAGE TEMPERATURE	-5 to +55 °C
DIMENSIONS	(L) 145 mm (H) 145 mm (D) 65 mm 24vDC version (S) (D) 100 mm AC version (D)
WEIGHT	0.8 KG
INGRESS PROTECTION	IP64, IP66 over housing option
MISCELLANEOUS	Alarm relay inhibit during calibration Sounder Isolate System function test Field Terminals – screw type 2.5mm Cable entry – top, bottom, sides, rear CE – Document C1943

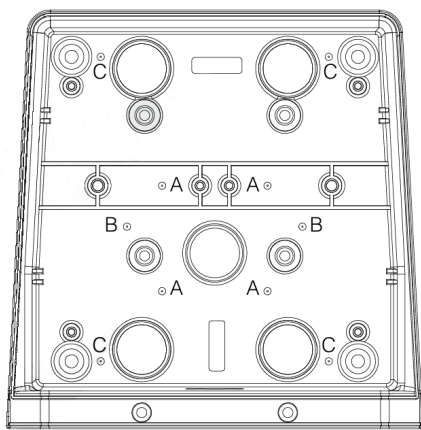
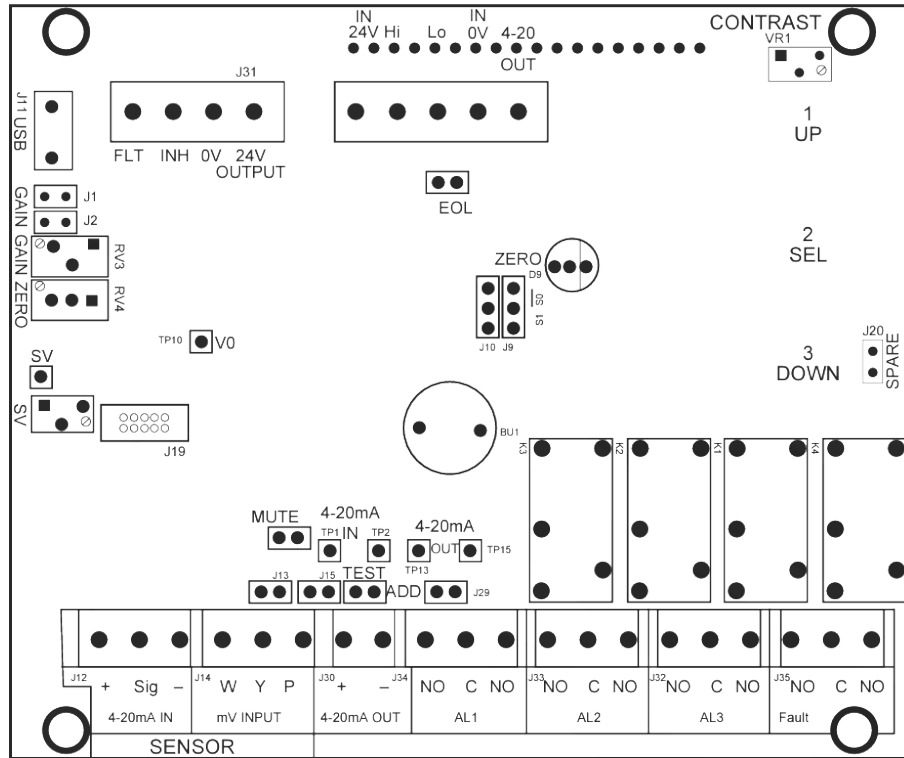
Supply Volts	Internal Sensor	Remote Sensor	Aspirated Sensor
24VDC	CH1 + CH2	CH1 + CH2	CH1 (+ CH2 REMOTE)
MAINS	CH1	CH1 + CH2	-
MAINS DOUBLE BOX	CH1 + CH2	CH1 + CH2	CH1 OR CH2 (+ CH REMOTE)

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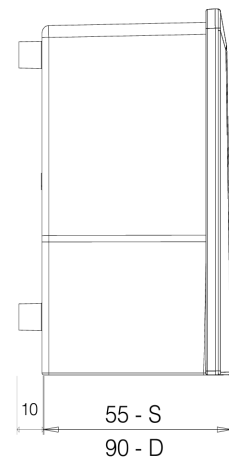
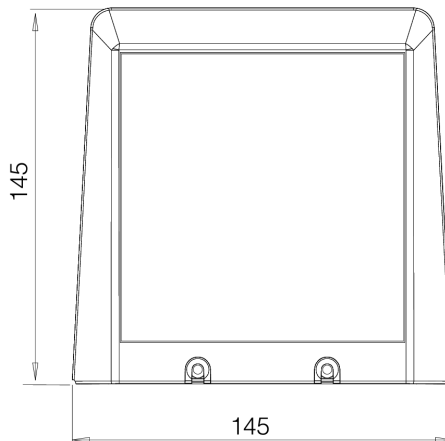
Dual sensor gas alarm



## CONTROL UNIT PCB



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### FOR MORE INFORMATION

[www.watchgas.com](http://www.watchgas.com)  
[info@watchgas.com](mailto:info@watchgas.com)

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