

WatchGas Combi 64 Addressable GAS ALARM

Addressable Sensor – Gas Monitoring System

Specification Sheet ref C1691

- 1 to 64 addressable sensors
- Network up to 16 controllers enabling up to 1024 addressable sensors
- Single 4 core cable sensor network
- Parameter set-up via PC or front panel
- 3 alarm levels with time to alarm option
- Automatic safety check diagnostics/system surveillance



Combi 64 Addressable has been designed to operate in the full range of environments from commercial premises through to heavy industrial applications which may require hazardous area sensing. Typical monitor locations are – public buildings, car parks, tunnels, breweries, boiler plant rooms, water treatment works, H&V control, manufacturing, process plants, horticulture, hotels, offices.

Operation

Each gas sensor continuously monitors the atmosphere reporting any hazardous conditions to the control unit for display by the alpha numeric screen indicating the reporting sensor, gas type, concentration and alarm status. Alarm levels that are exceeded will automatically activate a variety of signal outputs including analogue/digital data and user selectable relays.

The Combi 64-Addressable system operates on a 4-core cable network and has the capacity to monitor up to 64 addressable sensors.

Larger systems offering up to 1024 sensors can be achieved using multiple combi units housed in a 19" rack based system or having a network controller supervising up to 16 Combi units.

The Combi 64 is supplied ready to use with pre-calibrated gas sensors and provides for additional sensors that can be easily added to any point of the network.

Sensor points

1~64 addressable – CANbus

Measurements

Combustible gas – L.E.L., % vol
Toxic gas – ppm, % vol
Oxygen – % vol – depletion/enrichment
Refrigerant – ppm
Any 4~20mA transmitter

Indicators

Dot matrix LCD 4 line 40 character - indicating sensor location, gas type (rising or falling alarms), alarm status, system fault, sensor line fault, sensor fault, inhibit, real time clock, event memory

Red LED – global alarm
Amber LED – global fault
Amber LED – inhibit

WatchGas Combi 64 Addressable GAS ALARM

Outputs

8 user selectable zone/voting – with NE/ND option and delay to de-energise

Relay contacts – 2 D.P.C.O / 6 S.P.C.O. rated @ 5A-230v AC

Factory set 1 common low alarm D.P.C.O or group 1
1 common high alarm D.P.C.O or group 2
1 common overrange S.P.C.O or group 3
1 common fault alarm S.P.C.O or group 4
4 user selectable S.P.C.O groups 5 to 8

General alarm relay – resettable S.P.C.O. for sounders only

RS232 data log – event log

Modbus – RS485

Individual sensor logging – intervals 1-60 mins storage readings 2880

Audible alarm

Alarm/Fault – permanent mute option

Power

230/115v AC or 24v DC $\pm 15\%$

Control unit 7.5w quiescent 17w full alarm

Sensor – 1.25w

Internal power supply: 35 sensors max. 36+ sensors - 11A/24vDC

Auxiliary Power Pack required C1541/C1293

Sensor Cable

Main network – 4 core (2 power - 2 comms)

1.5mm² screened max length 1km

Optional signal booster per additional 1km

Miscellaneous

Enclosure cable entry – bottom, rear, top

Remote reset/mute

Environmental

Control unit – IP52 – wall mount

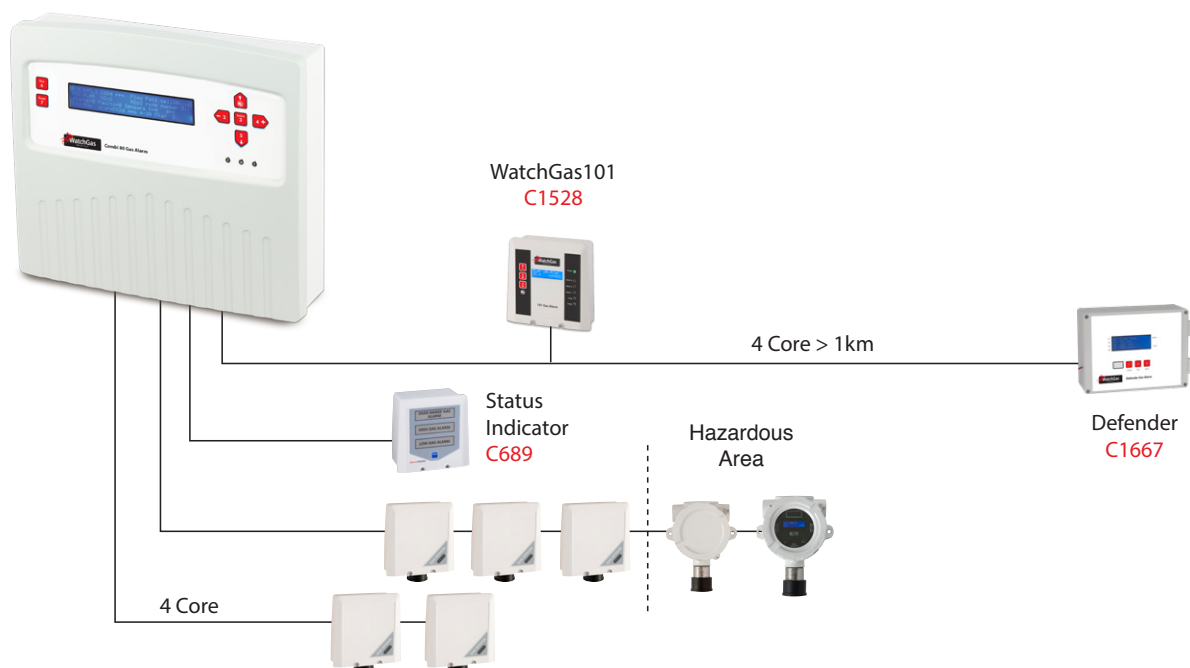
Optional overhousing – IP65

Operating temperature: -10 to +50°C

Dimensions

315W x 265H x 95D – Combi panel

315W x 265H x 95D – Auxiliary power pack



This document is not contractual and the equipment specification may be modified at any time without prior notice.