

WatchGas Combi 16 Direct GAS ALARM

Direct Analogue Sensor – Gas Monitoring System

Specification Sheet ref C1692Av.2

- 1-16 direct 4~20mA sensors - 2/3 wire
- 1-8 plug in direct catalytic sensor modules
- Network up to 16 controllers enabling up to 256 direct sensors
- Parameter set-up via PC or front panel
- 3 alarm levels with time to alarm option
- Automatic safety check diagnostics/system surveillance



Combi 16 Direct 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 16-Direct system operates on a 2/3 core cable system, each sensor being wired directly to the control unit.

Eight of the above sensors will accept mV catalytic detectors by the use of plug in modules 007-201.

Larger systems 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.

Sensor points

1~16 direct 4~20mA inputs

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

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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

Sensor Cable - Addressable Direct

2/3 core (1.5mm² screened max length 1km)

Miscellaneous

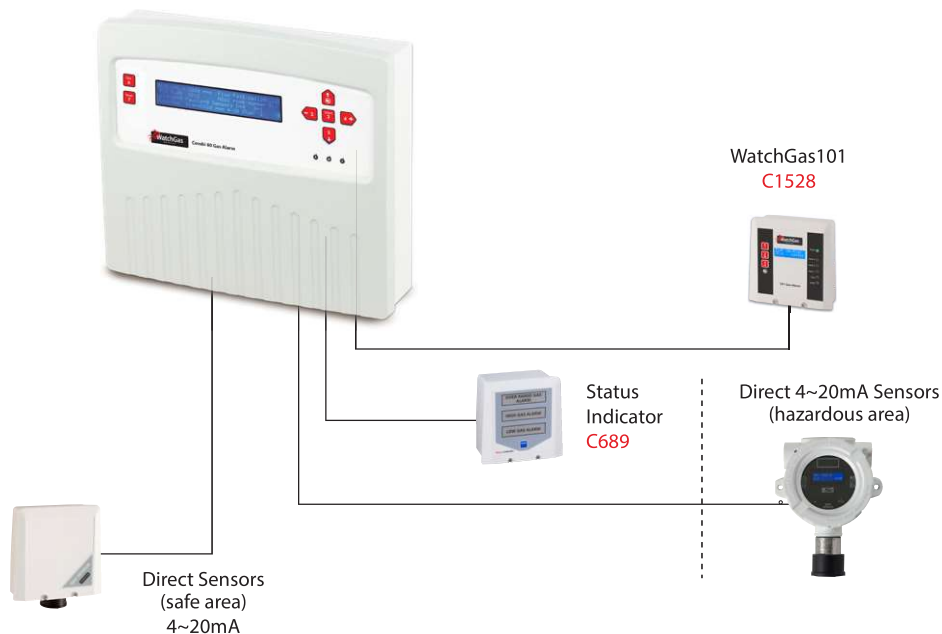
Enclosure cable entry – bottom, rear, top
Remote reset/mute

Environmental

Control unit – IP52 – wall mount
Optional overhousing – IP65
Operating temperature: -10 to +50°C

Dimensions

315W x 265H x 95D – Combi panel
19" x 3U x 300mm Deep – rack panel



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