

- Up to 64 addressable sensors
- 1-16 direct 4~20mA sensors
- Either or both types of sensors
- Single 4 core sensor network (addressable)
- On screen text description of sensor locations
- 3 alarm levels
- Event log
- Low cost installation
- Repeater panel - option
- 64 Additional relays - option
- One man calibration utilising peak readings
- Automatic safety check diagnostics/system surveillance



Combi 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.

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 system operates on a 4-core (addressable) or 2/3 core (direct) cable network and has the capacity to monitor up to 64 addressable and 16 direct sensors of various gas types. Larger systems offering unlimited sensors can be achieved using multiple combi units housed in a 19" rack based system. The Combi 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 – Can bus – and/or
- 16 direct 4~20mA

Measurements

- Combustible Gas - L.E.L., % vol
- Toxic Gas - ppm, % vol
- Oxygen - % vol - Depletion/Enrichment
- Refrigerant - ppm
- Any 4 ~ 20mA transmitter

Indicators - control unit

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

Outputs

- 4 user selectable. S.P.C.O. Zone/voting – time ON/OFF delay
 - 1 common low alarm D.P.C.O
 - 1 common high alarm D.P.C.O
 - 1 common overrange S.P.C.O
 - 1 common fault alarm S.P.C.O
- } NE/ND
- All contacts rated @ 5A-230v AC
 - General alarm relay - resettable S.P.C.O. - for sounders etc.
 - Optional 64 relays - programmable
 - 2 channel 4~20mA - assignable to any group of sensors
 - RS232 data log - event log
 - Modbus - RS485 x2
 - 24v DC output fused at 1Amp

Audible alarm

- Alarm/Fault - permanent mute option

Power

- 230/115v AC or 24v DC
- Control unit 7.5w quiescent 17w full alarm
- Sensor - 2.5w
- Internal power supply - 20 sensors max
- 20+ sensors GDS 10PS Power Pack

Sensor Cable - Addressable Direct

- Main network - 4 core (2 power - 2 comms)] 1.5mm² screened max length 1km
- 2/3 core

Miscellaneous

- Enclosure cable entry - bottom, rear, top
- Remote reset/mute
- Front panel button – key lock
- Repeater panel
- 16 way 4~20mA catalytic converter panel
- LED indication – Con fail, Modbus fail, MPU fail
- Password protection - user mode/engineers mode
- LCD and LED dimming

Environmental

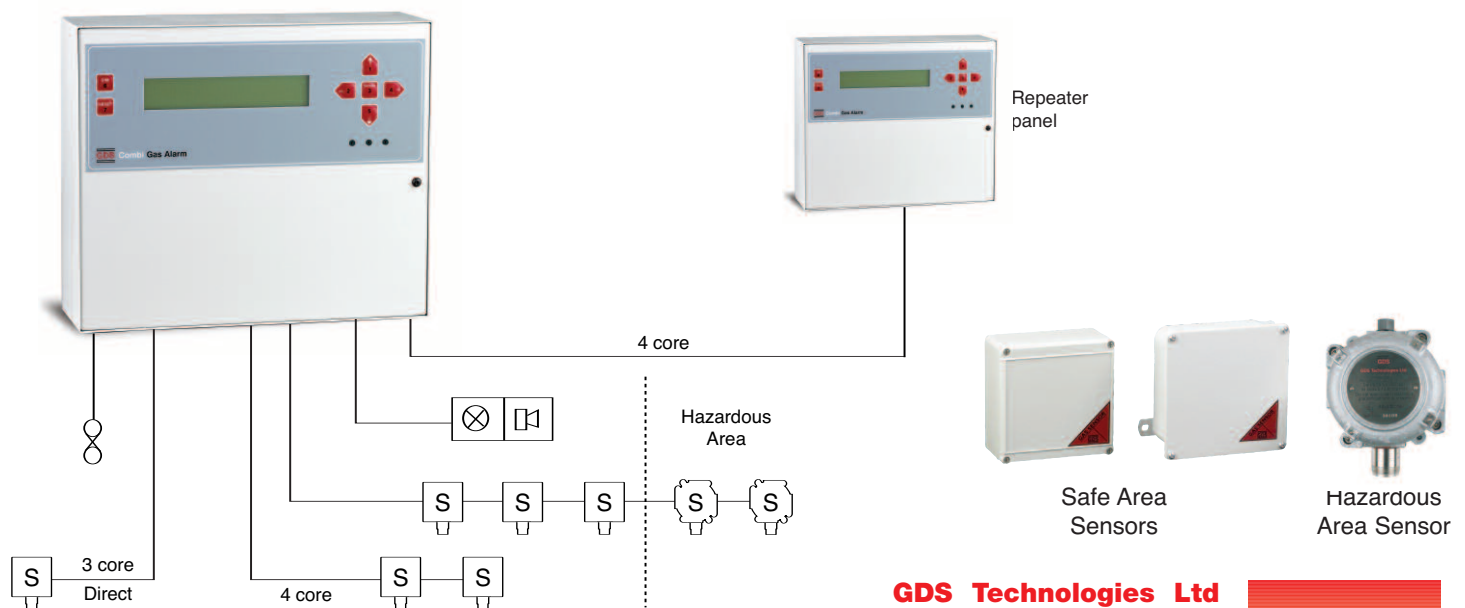
- Control unit - IP52
- Operating temperature -10 + 50° C

Dimensions

- 315W x 265H x 95D - Combi panel
- 315W x 265H x 95D - GDS 10PS power supply

Weight

- 4.95Kg



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

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