

combi

Addressable/Direct Gas Monitoring System

Specification Sheet ref C689C

1 to 64 addressable sensors

- 1-16 direct 4~20mA sensors 2/3 wire
- 80 sensor operations in total
- Network up to 16 controllers enabling up to 1024 addressable sensors
- Single 4 core sensor network (addressable)
- Parameter set up via Pc or front panel
- On screen text description of sensor locations
- 3 alarm levels with time to alarm option
- Event data logging internal 99 event
- Low cost installation
- Repeater panel option
- 64 Additional relays option
- Addressable relay board option
- One man calibration
- continuous data logging via Pc option (combi soft)
- Automatic safety check diagnostics/system surveillance
- System management via remote access
- 8 way 4~20mA output module optional

Application

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.

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 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.

Optional software (Combi Soft) allows full data logging facilities with system management providing real time views showing sensor locations, alarms status and actual gas values.

Technical Data Sensor points 1-64 addressable – Can bus – and/or 16 direct 4~20mA Combi Plus - 128 addressable Combustible Gas - L.E.L., % vol **Meas**urements Toxic Gas - ppm, % vol Oxygen - % vol - Depletion/Enrichment Refrigerant - ppm • Any 4 ~ 20mA transmitter • Dot matrix LCD 4 line 40 character - indicating sensor location, gas type, Indicators - control unit (rising or falling alarms), alarm status, system fault, sensor line fault, sensor fault, concentration inhibit, real time clock, event memory Red LED - global alarm, Amber LED - global fault, Amber LED-inhibit



Technical Data	ref C689C
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 overange 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 - resetable S.P.C.O for sounders etc. Optional - 2 x 32 relays - first 16 programmable with pattern/event with NE/ND options and delay to de-energise - 48 are single event Optional - remote addressable 4 way relay unit RS232 data log - event log Modbus - RS485 x2 Combi Soft - full data logging and management tool - option.
Audible alarm	Alarm/Fault - permanent mute option
Power	 230/115v AC or 24v DC Control unit 7.5w quiescent 17w full alarm Sensor - 1.25w Internal power supply - 20 sensors max 21+ sensors - 11A/24vDC Auxiliary Power Pack required
Sensor cable - Addressable Direct	 Main network - 4 core (2 power - 2 comms) 1.5mm² screened max length 1km 2/3 core Optional signal booster for additional 1km
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 – Comms fail, Modbus fail, MPU fail Password protection - user mode/engineers mode LCD and LED dimming
Environmental	 Control unit - IP52 Optional overhousing - IP65 Operating temperature: 5/40°C
Dimensions	 315W x 265H x 95D - Combi panel 315W x 265H x 95D - Auxiliary power pack
Weight	 4.95 Kg
System Configuration	
3 core Direct	Repeater panel 2 x 32 way relay panel 4 way relay module 4 core > 1km Hazardous Area B channel 4-20mA module B channel 4-20mA module B channel 4-20mA module Company
CE GDS C828 ISO 9001	A specification may be modified at any time without prior notice.