

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.

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 8 of which may be converted to accept mV catalytic sensors.

Larger systems offering unlimited sensors can be achieved using multiple combi units housed in a 19" rack based system or a network controller.

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.

Key Features

- 1 to 64 addressable sensors
- 1-16 direct 4~20mA sensors - 2/3 wire
- 1 - 8 plug in direct catalytic cards
- Network up to 16 controllers enabling up to 1024 addressable sensors + direct sensors
- Single 4 core sensor network (addressable)
- Parameter set up via pc or front panel
- 3 alarm levels with time to alarm option
- Addressable relay module - 4, 8 and 32 way option
- Continuous data logging via pc - option (combi soft)
- Automatic safety check diagnostics/system surveillance
- System management via remote access



Key Features

- Public buildings
- Car parks
- Tunnels
- Breweries
- Boiler plant rooms
- Water treatment works
- H&V control
- Manufacturing
- Process plants
- Horticulture
- Hotels
- Offices

SPECIFICATION

Sensor points	1-64 addressable – CANbus – 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	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
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 - 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 /management tool - option. Individual sensor logging - intervals 1-60 mins storage readings 2880
Audible alarm	Alarm/Fault - permanent mute option 68dBs @ 1m
Power	230/115v AC or 24v DC ±15% 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 C1541/C1293

Sensor Cable - Addressable Direct	Main network - 4 core (2 power - 2 comms) 2/3 core (1.5mm ² screened max length 1km) Optional signal booster per additional 1km
Miscellaneous	Enclosure cable entry - bottom, rear, top Remote reset/mute
Options	Repeater panel 1-8 plug in catalytic cards 16 way mV catalytic converter 8 way 4~20mA input CAN signal converter 8 way 4~20mA output module 4 way alarm relay module 8 way alarm relay module 2 x 32 way alarm relay panel Sensor signal booster 1K+ Password protection - user mode/engineers mode LCD and LED dimming
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 295W 120H x 80D Din rail module 315W x 265H x 95D - Auxiliary power pack

