

MultiPoint Gas Alarm: Specification Sheet

Key Features

- 1 to 64 addressable sensors
- 1 to 16 direct 4~20mA sensors – 2/3 wires
- 1 to 8 plug in direct catalytic cards
- Network up to 16 controllers, enabling up to 1024 addressable sensors, plus direct sensors
- Parameter set up via PC or front panel
- 3 alarm levels with time to alarm option
- Addressable relay module- 4, 8 and 32 way options
- Optional continuous data logging via PC (Combi Soft data logging)
- Automatic safety check diagnostics/system surveillance
- System management via remote access



THE MULTIPoint HAS BEEN DESIGNED TO OPERATE IN THE FULL RANGE OF ENVIRONMENTS, FROM COMMERCIAL PREMISES, THROUGH TO INDUSTRIAL APPLICATIONS WHICH MAY REQUIRE HAZARDOUS AREA SENSING, TYPICAL LOCATIONS THAT USE THE MULTIPoint 80 ARE: PUBLIC BUILDINGS, CAR PARKS, TUNNELS, BREWERIES, BOILER PLANT ROOMS, WATER TREATMENT WORKS, H&V CONTROL, MANUFACTURING, PROCESS PLANT, HORTICULTURE, HOTELS AND OFFICES.

Technical Specification

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 expected to exceed will automatically activate a variety of signal outputs including analogue/digital data and user selectable relays.

The MultiPoint 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 through using multiple MultiPoint units, housed in a 19" rack-based system or network controller.

The MultiPoint is supplied ready-to-use with pre-calibrated gas sensors and provides additional sensors which can easily added to any network point.

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

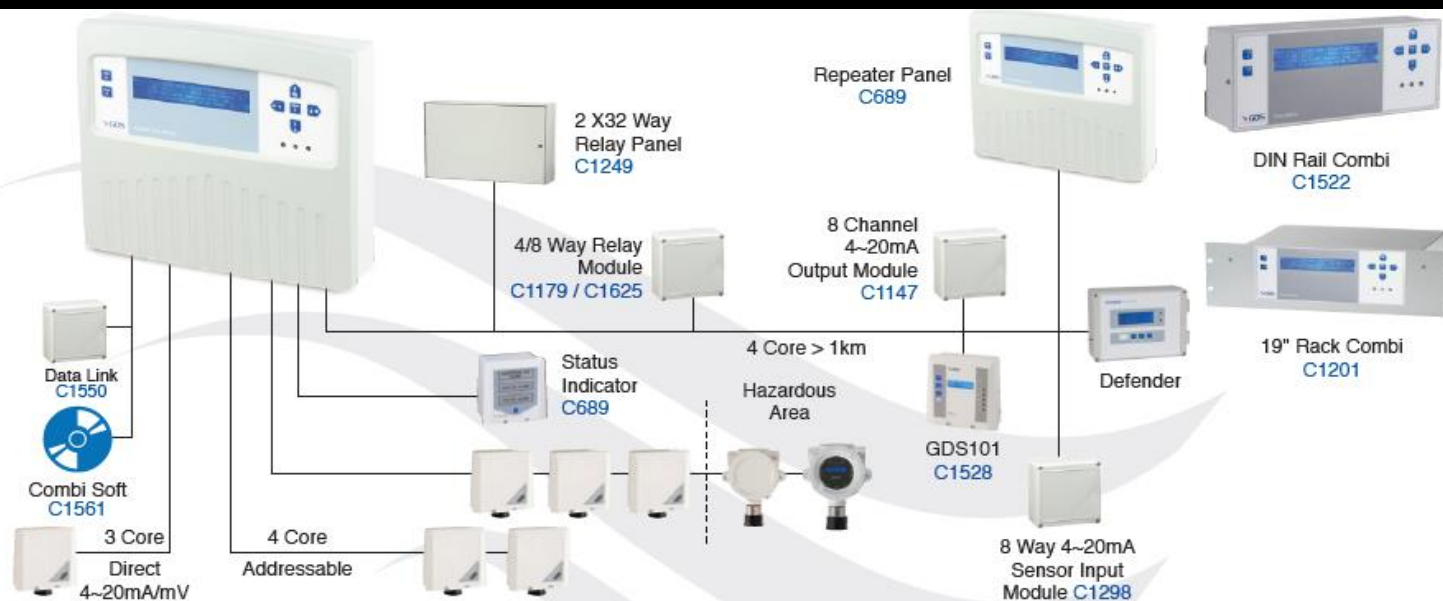
Sensor Points

1-64 addressable CANbus
16 direct 4~20mA
Measurements
Combustible Gas- LEL, %Vol.
Toxic Gas- ppm, %Vol.
Oxygen- %Vol, Depletion/Enrichment
Refrigerant- ppm
Any 4~20mA transmitter

Indicators – Control Unit Concentration

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, and event memory.
RED LED- Global Alarm
AMBER LED- Global Fault
AMBER LED- Inhibit

Technical Specification



Outputs

8 user selectable zone/voting- with NE/ND options and delay to de-energise
Relay contacts- 2D.P.C.O/6 S.P.C.O rated at 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 over-range S.P.C.P.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 etc.
Optional – 2x32 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
MultiPoint Soft: full data logging/management tool- optional
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 (1.5mm² screened max. length 1km)
Optional signal booster per additional 1km

Miscellaneous

Enclosure cable entry- bottom, rear, to
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
2x 32-way alarm relay panel
Sensor signal booster 1K+
Password protection- user mode/engineer mode
LCD and LED dimming

Environmental

Control unit – IP52 wall mount
Optional over housing- IP65
Operating temperature- -10 to +50 degrees Celsius

Dimensions

315W x 265H x 95D - MultiPoint Panel
19"x300x300mm Deep - rack panel
295W x 120H x 80D- Din rail module
315W x 265H x 95D- Auxiliary power pack