

GasSens Midi. Addressable monitoring system.



The GasSens Midi gas monitoring system 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, and 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 GasSens Midi system operates on a 4-core cable network and has the capacity to monitor up to 64 addressable sensors.

Larger systems offering up to 1024 sensors can be achieved using multiple Midi units housed in a 19" rack based system or having a network controller supervising up to 16 Midi units.

The GasSens Midi 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 – CANbus.

Measurements

Capable of measuring over 60 different gases or vapours.

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

Benefits

- 1 to 64 addressable sensors
- Network up to 16 controllers enabling up to 1024 addressable sensors
- Single 4 core cable sensor network
- Parameter set-up via PC or front panel
- 3 alarm levels with time to alarm option
- Automatic safety check diagnostics/system surveillance

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
- Inhibit function – remote indicator relay
- 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

Internal power supply: 35 sensors max. 36+ sensors – 11A/24vDC Auxiliary Power Pack required C1541/C1293

Sensor cable

Main network – 4 core (2 power – 2 comms)

1.5mm² screened max length 1km

Optional signal booster per additional 1km

Miscellaneous

Enclosure cable entry – bottom, rear, top

Remote reset/mute

Environmental

Control unit – IP52 – wall mount

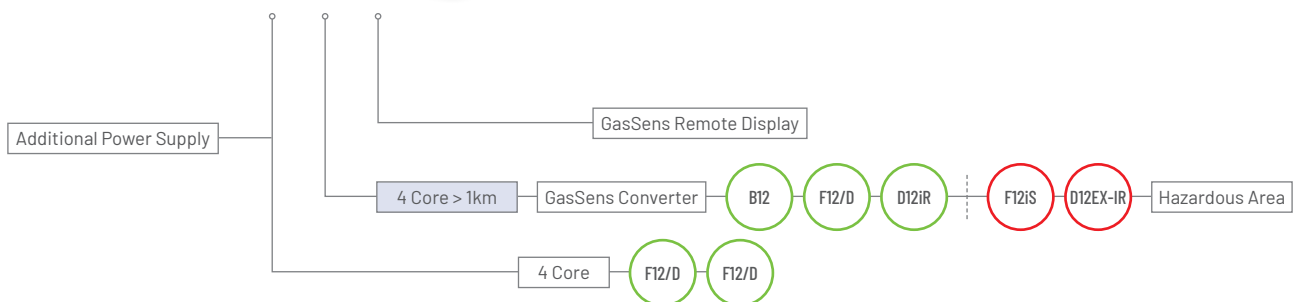
Optional overhousing – IP65

Operating temperature: -10 to +50°C

Dimensions

315W x 265H x 95D – Combi panel

315W x 265H x 95D – Auxiliary power pack



Sample connectivity diagram

Key:   ATI Gas Monitor Range