A Badger Meter® Brand

Gas Monitoring System

GasSens Midi

OVERVIEW

The GasSens Midi gas monitoring system was designed to operate in the full range of environments, from commercial premises 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 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 inch rack based system or having a network controller supervising up to 16 Midi units.

The GasSens Midi system 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 vapors

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…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

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Product Data Sheet

SPECIFICATIONS

Outputs

• 8 user selectable zone/voting – with NE/ND option and delay to de-energize
• Relay contacts – 2 D.P.C.O / 6 S.P.C.O. rated @ 5A-230V AC
• Factory set
  • One common low alarm D.P.C.O or group 1
  • One common high alarm D.P.C.O or group 2
  • One common over range S.P.C.O or group 3
  • One common fault alarm S.P.C.O or group 4
• 4 user selectable S.P.C.O groups 5…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 minutes storage readings 2880

Audible Alarm
Alarm/Fault – permanent mute option

Power
230/115V AC or 24V DC ±15%
Control unit 7.5 W quiescent 17 W full alarm
Sensor – 1.25 W
Internal power supply: 35 sensors max. 36+ sensors -
11A/24V DC Auxiliary Power Pack required C1541/C1293
Sensor Cable
Main network – 4 core (2 power - 2 comms)
1.5 mm 2 screened max length 1 km
Optional signal booster per additional 1 km
Miscellaneous
Enclosure cable entry – bottom, rear, top
Remote reset/mute
Environmental
Control unit – IP52 – wall mount
Optional over housing – IP65
Operating temperature: –10 to 50˚C
Dimensions
315 W × 265 H × 95 D – Combi panel
315 W × 265 H × 95 D – Auxiliary power pack



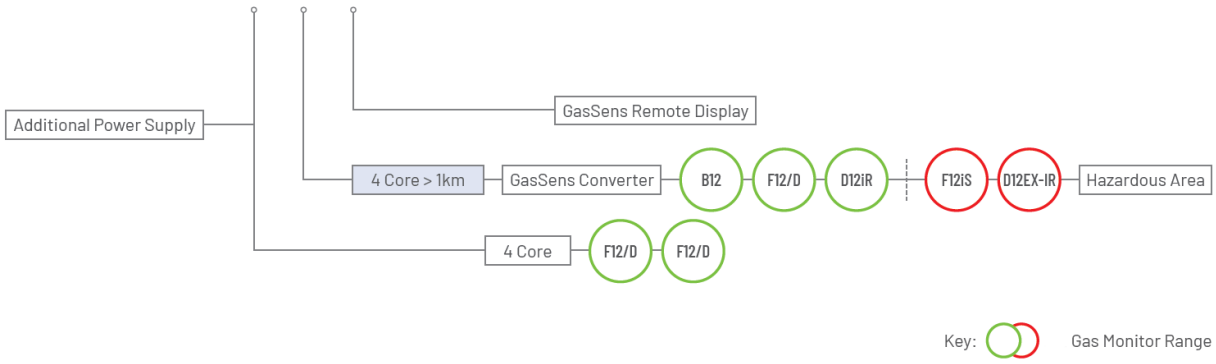


Figure 1: Sample connectivity diagram

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