



GAS Net 640

16 Channel
Addressable/Direct Gas
Monitoring System

Application

GAS Net 640 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 GAS Net 640 system operates on a 4-core cable network and has the capacity to monitor up to 64 addressable sensors of various gas types. Larger systems offering unlimited sensors can be achieved using multiple GAS Net 640 units housed in a 19" rack based system. The GAS Net 640 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.

The Facts

- Up to 64 addressable sensors
- 1-16 direct 4-20mA sensors
- Either or both types of sensors
- Single 4 core sensor network
- On screen text description of sensor locations
- 3 alarm levels
- Event log / data log
- Low cost installation
- Repeater panel - option
- Additional relays - option
- One man calibration utilising data storage
- Automatic safety check diagnostics /system surveillance

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Technical Data

Sensor points	<ul style="list-style-type: none">• 1-64 addressable - Can bus - and/or 1-16 4-20mA
Measurements	<ul style="list-style-type: none">• Combustible Gas - L.E.L., % vol• Toxic Gas - ppm, % vol• Oxygen - % vol - Depletion/Enrichment• Refrigerant - ppm• Any 4 ~ 20mA transmitter
Indicators - control unit	<ul style="list-style-type: none">• Dot matrix LCD 4 line 40 character sensor locating details, gas type, concentration (rising or falling), alarm status, system fault, line fault, sensor fault, inhibit, real time clock, event memory• Red LED - global alarm - Amber LED - global fault
Outputs	<ul style="list-style-type: none">• 8 Relays - 4 user selectable. S.P.C.O. Zone/voting - time ON/OFF delay• 1 common low alarm D.P.C.O• 1 common high alarm D.P.C.O• 1 common overrange S.P.C.O• 1 common fault alarm S.P.C.O• Mains fail relay - S.P.C.O. N/E• All contacts rated @ 5A-230v AC• General alarm relay - resettable S.P.C.O.• Optional 64 relays - programmable
Audible alarm	<ul style="list-style-type: none">• Alarm/Fault - permanent mute option• 2 channel 4-20mA - assignable to any groups of sensors• RS232 data log - event log• Modbus - RS485 x2
Power Consumption	<ul style="list-style-type: none">• 230/115v AC or 24v DC• Control unit• Sensor - 2.5w
Sensor Cable	<ul style="list-style-type: none">• Main network - 4 core (2 power - 2 comms) 1.5mm² screened max length 1km
Miscellaneous	<ul style="list-style-type: none">• 2 Enclosure cable entry - bottom, rear, top• Alarm relays - automatic inhibit during service periods• Remote reset/mute• Front panel button - key lock• Repeater panel• 16 way 4-20mA catalytic converter panel• LED indication - Con fail, Modbus fail, MPU fail• Password protection - user mode/engineers mode• LCD and LED dimming• Alarm test
Environmental	<ul style="list-style-type: none">• Control unit - IP52• Operating temperature -10 + 50°C
Dimensions	<ul style="list-style-type: none">• 315W x 265H x 95D
Weight	<ul style="list-style-type: none">• 4.95Kg