

## Features

- Versatile System Configuration
- Flammable, Oxygen and Toxic Gases
- 1 to 4 sensors
- Plug in sensor channel cards
- Two alarm stages
- Selectable alarm relays
- Analogue 4-20mA output
- Delay to alarm option



## Application

The EF 404 has been designed with features that provide an effective response to the detection of gas hazards in a wide range of environments, from commercial premises through to heavy industrial applications requiring hazardous area sensing. Typical monitor locations are public buildings, boiler plant rooms, swimming pools, water treatment works, H&V control systems, manufacturing and processing plants.

## 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 system operates on a single 4-core cable network and has the capacity to monitor up to 32 addressable sensors of various gas types. Larger systems offering unlimited sensors can be achieved using multiple Gas Nets housed in a 19" rack based system. The Gas Net 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. When local indication/alarm functions are required, any number of Snoop remote alarm panels may be connected, offering repeat functions of the main panel.

## Technical Data

### Sensor points Measurements

- 1 ~ 4
- Combustible Gas - L.E.L., % vol, ppm
- Toxic Gas - ppm, % vol
- Oxygen - % vol Depletion/Enrichment
- Any 4~20mA input signal

### Power supply

- 230/115v AC or 24v DC and specials

### Power Consumption

- 12 watts - full alarm

### Indicators

- Power - Green L.E.D
- Mains Fail - power indicator change green to amber
- Alarms - Red L.E.D.s
- Fault - Amber L.E.D
- Digital Display - 3 1/2 Digit - gas readout
- Sensor channel selection indicator - Amber L.E.D
- System test - Alarm L.E.D.s flashing
- Alarm Relay Inhibit - Fault L.E.D on

# Technical Data

## Outputs

- High Alarm Relay - Common D.P.C.O  
Normally energised or de-energised, latched or unlatched
- Low Alarm Relay - Common D.P.C.O  
Normally energised or de-energised, latched or unlatched
- Fault Alarm Relay - Common S.P.C.O  
Normally energised or de-energised
- Channel Relays - 1 per channel high or low selectable S.P.C.O  
Normally energised or de-energised, latched or unlatched
- General Alarm Relay - resettable S.P.C.O
- All contacts rated 5A-230vAC
- Analogue 4 ~ 20mA output per channel
- Output 24vDC @ 100mA max - auxiliary equipment (non inductive)

## Audible Alarm

- Permanent mute option.  
Lo, Hi, Fault alarms

## Alarm Settings

- Digital Setting (fully adjustable between zero and fullscale)
- Delay to alarm T1 - 10 seconds, T2 - 30 seconds, T1 + T2 - 10 minutes

## Sensor inputs

- Bridge type 3 wire mV input
- 4~20mA (electrochemical/infrared)

## Sensor cable

- 3 core 1.5mm<sup>2</sup> screened < 1.5km

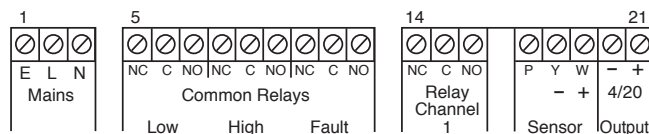
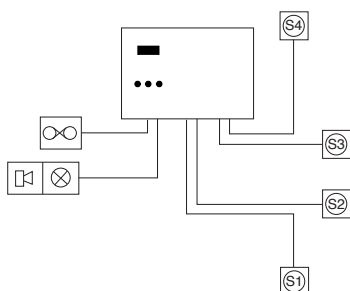
## Miscellaneous

- EMC approvals EN50270 Marine EN60945
- Enclosure - cable entry - bottom/rear
- Operating temperature -10 to +50°C
- Relative Humidity 0 - 90%
- Protection IP52 - option IP65
- Dimensions 310W x 265H x 75Dmm
- Weight 3.6kg
- Optional backup battery
- Field terminals - 2.5mm quick release
- System/lamp test
- Remote Accept/Reset
- Alarm isolate during service - inhibit

## Sensors



## Field Terminals



Repeated for each channel 1-4 terminals 14-21