- **Operates directly with sensors or GAS 640 system**
- **Continuous sensor status monitoring**
- **Two modes of operation – indicator/repeater**
- **1~15 Panels / system**
- **1~64 Sensor grouping**
- **Traffic light display**
- **Simple network connection and setup**
- **Menu options**

CAN Status Indicator

The CAN Status Indicator may be used as a remote indicator warning panel, providing visual and audible alarms or by menu selection, used as a repeater unit giving details of individual sensor readings and alarms from the selected sensor group.

Communications
4 wire addressable CANbus – GAS 640 system

Indicators
Normal – Green display screen
Repeater mode:
Concentration | Gas type | Sensor identification
Indicator mode (menu option)
Text – SAFE

A1 (low alarm)
Red screen flashing 1 second + sounder
Repeater mode:
Reading | Gas type | Sensor identification | Alarm status
Indicator mode:
Text – LOW ALARM

A2 (high alarm)
Red screen flashing 0.5 second + sounder
Repeater mode:
Reading | Gas type | Sensor identification | Alarm status
Indicator mode:
Text – HIGH ALARM

A3 (overrange alarm)
Red screen flashing 0.25 second + sounder
Repeater mode:
Reading | Gas type | Sensor identification | Alarm status
Indicator mode:
Text – OVERRANGE ALARM

Fault
Amber screen flashing + sounder
Repeater mode:
Fault status | Sensor identification
Indicator mode:
Text – FAULT

Relays
Four – A1, A2, A3, Fault
SPCO 5A/30vDC
Latched or unlatched N/E - N/D
Relay off timer

Sounder Output
68dBs @ 1 metre
Mutable or permanent isolate option
Sounder automatic 10 minute time out option

Other
Manual test – indicators, sounder & relays
Weight 0.45kg

Enclosure
ABS flame retardant FR40
Lid Screws M4-SS
Protection – IP64 (weather proof)
Finish – Signal White RAL 9003
Entries
Base 2 x 20mm knock-outs
Rear 5 x 20mm and 2 slot knock-outs
Sides/Top not specified
Environmental air seal gasket – option

Mounting
Stand offs – M4 or No.8 screws
Drill at (C) when stand offs removed
Conduit box – drill at (A) 4.5mm
Surface mount box – drill at (B) 4.5mm

Gas Alarm Systems
A Protec Fire and Security Group Company

CAN Status Indicator

User Menu

1. The user menu is entered by pressing the reset button on the front of the unit on power up, the up and down buttons on the back are used to navigate the user menu.

2. **Select sensors**
   Enable which sensors to display on the LCD or multiple CAN indicators. (The sensors selected must be connected to the same CAN channel).

3. **Operating mode**
   Selects status mode or repeater mode.

4. **Alarm latching**
   All alarms unlatched, A1, A2 unlatched A3 latched or all latched.

5. **Relay off time**
   Set the relay off time for the 4 relays.

6. **Relay status**
   Normally energized or normally de-energized.

7. **Relay 4 Mode**
   R4 can be a fault relay or mirror the internal sounder – resettable.

8. **Factory defaults**
   Loads factory defaults.

9. R**elay test**
   Turns each relay on and off and turns the buzzer on and off.

10. **PC to panel**
    Reads in the text file sent from the PC.

11. **Panel to PC**
    Output the current setting to the PC.

12. **Temp & Voltage**
    Display the current temperature of the processor and the current PCB voltage.

Factory Defaults

13. **Diagnostic**
    This option display which sensors are detected on the can channel and what alarm or fault state they are in

14. **Xfault/xMute**
    This option switches J12 from external fault input or an external mute / reset button.

15. **Select sensors**
    All sensors disabled. (2)

16. **Operating mode**
    Status Indicator. (3)

17. **Alarm latching**
    All latched. (4)

18. **Relay off time**
    5 Seconds (Minimum time delay). (5)

19. **Relay status**
    Normally de-energized. (6)

20. **Relay 4 Mode**
    Fault relay (7)

PC to panel and Panel to PC

21. The HyperTerminal settings are Baud rate (bits per second) 2400, Data bits 8, Parity None, Stop bits 1, Flow Control None

Relays

22. The relays operate when any of the selected sensors go into the alarm condition.

23. **R1** = A1 alarm – Low alarm

24. **R2** = A2 alarm – High alarm

25. **R3** = A3 alarm – Over range alarm

26. **R4** = Fault or Sounder follower (Set in menu).

27. If R4 is set to Sounder in the menu, a 10 minute timeout can be enabled or disabled.

Display and Buzzer

28. **User menu**
    The display backlight is set to blue.

29. **No Alarm or fault**
    The display backlight is set to green.

30. **Unacknowledged fault**
    The display backlight is flashing amber every 1 second and the buzzer is on.

31. **Acknowledged fault**
    The display backlight is flashing amber every 1 second and the buzzer is off.

32. **Unacknowledged A1**
    The display backlight is flashing Red every 1 second and the buzzer is on.

33. **Acknowledged A1**
    The display backlight is flashing Red every 1 second and the buzzer is off.

34. **Unacknowledged A2**
    The display backlight is flashing Red every 0.5 seconds and the buzzer is on.

35. **Acknowledged A2**
    The display backlight is flashing Red every 0.5 seconds and the buzzer is off.

36. **Unacknowledged A3**
    The display backlight is flashing Red every 0.25 seconds and the buzzer is on.

37. **Acknowledged A3**
    The display backlight is flashing Red every 0.25 seconds and the buzzer is off.

38. **Inhibited**
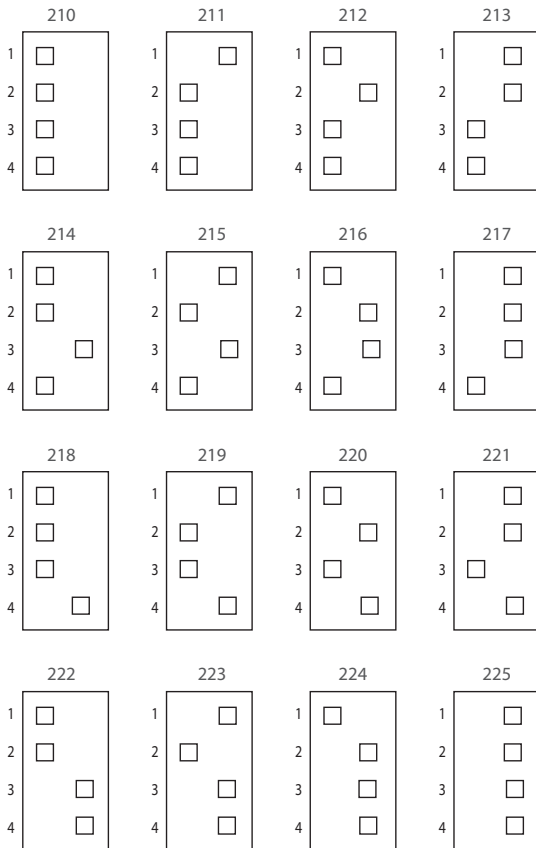   The display backlight is set to Amber and the buzzer is off (see 55/56)

Fault

39. A fault is detected, when the sensor reports a fault or the sensor has timed out or a sensor has been selected in the menu but not connected.

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Address

40. Address is set by a 4-way switch and the address range is 210 – 225.

210 — 1, 2, 3, 4
211 — 1, 2, 3, 4
212 — 1, 2, 3, 4
213 — 1, 2, 3, 4
214 — 1, 2, 3, 4
215 — 1, 2, 3, 4
216 — 1, 2, 3, 4
217 — 1, 2, 3, 4
218 — 1, 2, 3, 4
219 — 1, 2, 3, 4
220 — 1, 2, 3, 4
221 — 1, 2, 3, 4
222 — 1, 2, 3, 4
223 — 1, 2, 3, 4
224 — 1, 2, 3, 4
225 — 1, 2, 3, 4

Repeater Mode

41. **Normal operation**
    Displays Gas reading and units on the top line and sensor number on the bottom line.

42. **A1 alarm**
    Displays Gas reading and units on the top line and sensor number and A1 on the bottom line.

43. **A2 alarm**
    Displays Gas reading and units on the top line and sensor number and A2 on the bottom line.

44. **A3 alarm**
    Displays Gas reading and units on the top line and sensor number and A3 on the bottom line.

45. **Sensor fault**
    Displays Gas reading and units on the top line and sensor number and Fault on the bottom line.

46. **Sensor timeout**
    Displays Timeout on the top line and sensor number and Fault on the bottom line.

47. **Sensor selected, but not connected**
    Displays Missing on the top line and sensor number and Fault on the bottom line.

48. **No sensors selected**
    Displays No Sensors on the top line and Selected on the bottom line.

49. **Sensor display**
    When an alarm or fault is detected the display will only display these sensors.

50. **Sensor inhibited**
    Displays Gas reading and units on the top line and sensor number and Inhib on the bottom line.

Status Indicator Mode

51. Default option display on the screen.
    This text can be changed via the text file.

52. **No Alarm or Fault** = Safe

53. **A1** = Low Alarm

54. **A2** = High Alarm

55. **A3** = Overrange Alarm

56. **Fault** = Fault

57. **Inhibit** = Inhibit

Inhibit

58. To put the unit into inhibit the reset button on the front of the unit must be pressed and held down for 15 seconds when no sensors are in alarm.

59. To take the unit out of inhibit the reset button on the front of the unit must be pressed and held down for 15 seconds.

Repeater:

Indicator:

0.0 % Lel
Sensor 1

Reset
1

Low Alarm

Reset
1

145.0

147.0

10

60.0

Cover lid removed.
Drill 4mm at (B)
for surface/dry wall boxes.

A   A
B   B
A   A
C   C

GAS 640
~~Defender~~
~~GAS101~~
~~GasVac® Solo~~

CAN Alarm
Indicator

CAN Status
Monitor

Gas Alarm Systems
A Protec Fire and Security Group Company

Unit 4, Halfpenny Close, Knaresborough, North Yorkshire HG5 0TG.
Tel: 01423 862240 Fax: 01423 860239 | Email: sales@gasalarmsystems.co.uk | www.gasalarmsystems.co.uk

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