CAN STATUS INDICATOR

Specification Sheet
ref C1742 Issue Dv8

- Operates directly with sensors or the Combi, Defender, GDS101 and GasVac® systems
- Selectable modes of operation:
  1. Sensor group monitor (repeater)
  2. Alarm indicator warning panel
- 1~15 Panels / system
- 1~64 Sensor grouping
- Traffic light display
- Simple network connection and setup
- Menu options
- Surface mount option

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 local repeater unit giving details of individual sensor readings and alarms from a selected sensor group, Defender or 101 control units, and as a main monitor panel for the GasVac Solo.

Communications
4 wire addressable CANbus

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

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

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

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

Fault
Amber screen flashing + sounder (colour options)
Repeater Mode:
Fault status | Sensor identification
Alarm 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
Flush mount unit – see document C1840 for dimensions

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 (The sensors must be connected to the same CAN channel). Note: EN indicates sensor is enabled DIS indicates sensor is disabled
3. **Operating mode**
   Selects status mode, repeater mode or GasVac.
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 3 Mode**
   R3 can be an over range relay, a fault relay or can mirror the internal sounder.
8. **Relay 4 Mode**
   R4 can be a fault relay or can mirror the internal sounder.
9. **Factory defaults**
   Loads factory defaults.
10. **Relay test**
    Turns each relay on and off and turns the buzzer on and off.
11. **PC to panel**
    Reads in the text file sent from the PC.
12. **Panel to PC**
    Output the current setting to the PC.
13. **Temp & Voltage**
    Display the current temperature of the processor and the current PCB voltage.
14. **Diagnostic**
    Displays how many sensors are on the Canbus line and what alarm state the selected sensors are.
15. **External Fault/Mute**
    Select what input you want connector J12 to be an external fault or an External buzzer mute.
16. **Screen Colour (No Alarms)**
    Allows colour of backlight to be adjusted.
17. **Screen Colour (A1 Alarm)**
    Allows colour of backlight to be adjusted.
18. **Screen Colour (A2 Alarm)**
    Allows colour of backlight to be adjusted.
19. **Screen Colour (A3 Alarm)**
    Allows colour of backlight to be adjusted.
20. **Screen Colour (Fault)**
    Allows colour of backlight to be adjusted.
21. **Set Address**
    Set CAN Address on PCB's without switches (52).
22. **Contrast**
    Allows contrast of text on screen to be adjusted.

Factory Defaults

23. **Select sensors**
    All sensors disabled. (2)
24. **Operating mode**
    Status Indicator. (3) (Green Screen)
25. **Alarm latching**
    All latched. (4)
26. **Relay off time**
    5 Seconds (Minimum time delay). (5)
27. **Relay status**
    Normally de–energized. (6)
28. **Relay 4 Mode** Fault relay. (7)
    Relay 3 Mode Alarm 3 Over range. (7)
29. **Screen Colours**
    No Alarm = Green (16)
    A1, A2, A3 = Red (17, 18. 19)
    Fault = Amber (20).
30. **Set Address**
    Reset CAN Address to 210 on PCB's without switches (21).
31. **Contrast**
    Hold UP and DOWN buttons on power up reset to factory default (22).

PC to panel and Panel to PC

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

Relays

33. The relays operate when any of the selected sensors go into the alarm condition.
34. **R1** = A1 alarm – Low alarm.
35. **R2** = A2 alarm – High alarm.
36. **R3** = A3 alarm – Over range alarm
    Fault or Sounder (Set in menu).
37. **R4** = Fault or Sounder follower (Set in menu).
38. If **R3/R4** is set to Sounder in the menu, a 10 minute timeout can be enabled or disabled.

Display and Buzzer

39. **User menu**
    The display backlight is set to blue.
40. **No Alarm or fault**
    The display backlight is set to green.
41. **Unacknowledged fault**
    The display backlight is flashing amber every 1 second and the buzzer is on.
42. **Acknowledged fault**
    The display backlight is flashing amber every 1 second and the buzzer is off.
43. **Unacknowledged A1**
    The display backlight is flashing Red every 1 second and the buzzer is on.
44. **Acknowledged A1**
    The display backlight is flashing Red every 1 second and the buzzer is off.
45. **Unacknowledged A2**
    The display backlight is flashing Red every 0.5 seconds and the buzzer is on.
46. **Acknowledged A2**
    The display backlight is flashing Red every 0.5 seconds and the buzzer is off.
47. **Unacknowledged A3**
    The display backlight is flashing Red every 0.25 seconds and the buzzer is on.
48. **Acknowledged A3**
    The display backlight is flashing Red every 0.25 seconds and the buzzer is off.
49. **Inhibited**
    The display backlight is set to Amber and the buzzer is off (see 64/65).

Fault

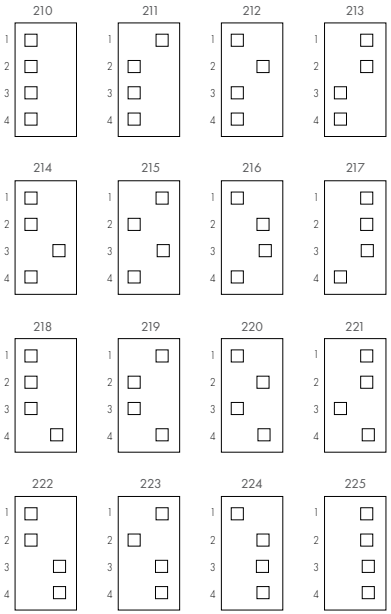
50. A fault is detected, when the sensor reports a fault or the sensor has timed out or a sensor has been selected in the menu but not connected.

External Fault

51. An external fault is detected when connector J12 is configured to external fault input in the user menu and the input is shorted to ground.

Address

52. Address is set by a 4–way switch and the address range is 210 – 225. *Note: 4-way switch only appears on PCB's up to issue D.*



Under and Over Voltage

53. When the voltage is under 16V a message is displayed on the screen saying under voltage.
54. When the voltage is over 32V a message is displayed on the screen saying over voltage.

Under and Over Temp

55. When the temperature of the processor is under 10˚C a message is displayed on the screen saying under temperature.
56. When the temperature of the processor is over 85˚C a message is displayed on the screen saying over temperature.

Repeater Monitor

57. **Normal operation**
    Displays Gas reading and units on the top line and sensor number on the bottom line.
58. **A1 alarm**
    Displays Gas reading and units on the top line and sensor number and A1 on the bottom line.
59. **A2 alarm**
    Displays Gas reading and units on the top line and sensor number and A2 on the bottom line.
60. **A3 alarm**
    Displays Gas reading and units on the top line and sensor number and A3 on the bottom line.
61. **Sensor fault**
    Displays Gas reading and units on the top line and sensor number and Fault on the bottom line.
62. **Sensor timeout**
    Displays Timeout on the top line and sensor number and Fault on the bottom line.
63. **External Fault**
    Displays External on top line and Fault on the bottom line
64. **Sensor selected, but not connected**
    Displays Missing on the top line and sensor number and Fault on the bottom line.
65. **No sensors selected**
    Displays No Sensors on the top line and Selected on the bottom line.
66. **Sensor display**
    When an alarm or fault is detected the display will only display these sensors.
67. **Sensor inhibited**
    Displays Gas reading and units on the top line and sensor number and Inhib on the bottom line.

Alarm Indicator

68. Default option display on the screen.
    This text can be changed via the text file.
69. **No Alarm or Fault** = Safe
70. **A1** = Low Alarm
71. **A2** = High Alarm
72. **A3** = Overrange Alarm
73. **Fault** = Fault
74. **Inhibit** = Inhibit
75. **External Fault** = External Fault

Inhibit

76. 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.
77. 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.

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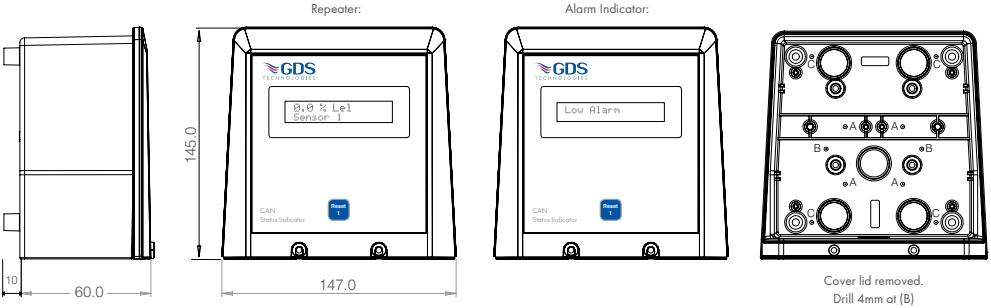
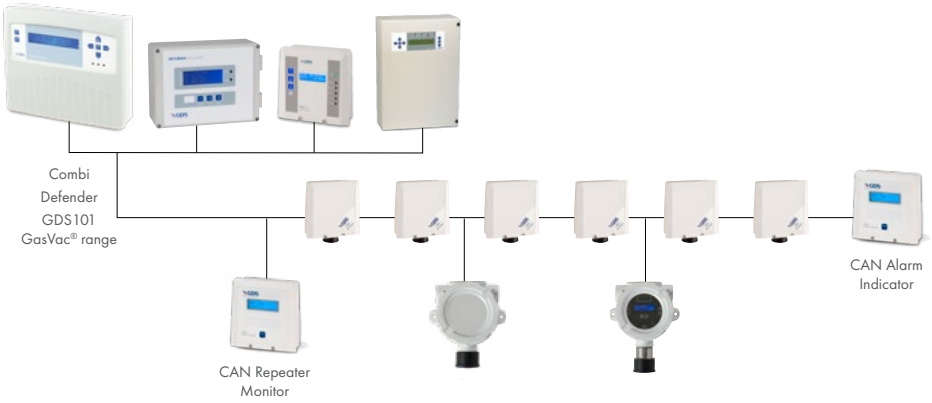


Cover lid removed.
Drill 4mm at (B)
for surface/dry wall boxes.



Combi
Defender
GDS101
GasVac® range

CAN Alarm
Indicator

CAN Repeater
Monitor

CAN Status Indicator
Flush Mount option

This document is not contractual and the equipment specification may be modified at any time without prior notice.

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