

# CAN STATUS INDICATOR+

- Operates directly with sensors or the Combi, GDS102 and selected GasVac® systems
- Selectable modes of operation:
  1. Repeater – sensor group monitor, alarm indicator
  2. Status indicator – alarm status warnings
- 1~45 Panels /system
- 1~64 Sensor grouping
- Traffic light display
- Simple network connection and setup
- Menu options
- Surface mount option



The CAN Status Indicator is a versatile device that serves as a local repeater or alarm status indicator. It displays detailed information regarding individual sensor readings and alarms from a selected sensor group. This includes data from various systems such as the Combi, 102, and selected GasVac systems. The CAN Status Indicator allows for localised monitoring and provides real-time status updates, making it a valuable tool for enhancing safety and situational awareness in environments where these gas monitoring systems are deployed.

## Communications

4 wire addressable CANbus

### Status Indicator

Normal – Green display (blue option)

Text – **SAFE**

### Repeater Mode:

Concentration | Gas type | Sensor identification

### Status – A1 (low alarm)

Red screen flashing 1 second + sounder

Text – **LOW ALARM**

### Repeater Mode:

Reading | Gas type | Sensor identification | Alarm status

### Status – A2 (high alarm)

Red screen flashing 0.5 second + sounder

Text – **HIGH ALARM**

### Repeater Mode:

Reading | Gas type | Sensor identification | Alarm status

### Status – A3 (overrange alarm)

Red screen flashing 0.25 second + sounder

Text – **OVERRANGE ALARM**

### Repeater Mode:

Reading | Gas type | Sensor identification | Alarm status

### Status – Fault

Amber screen flashing + sounder

Text – **FAULT**

### Repeater Mode:

Fault status | Sensor identification

## Relays

Four – A1, A2, A3, Fault – menu options

SPCO 3A/230vAC

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

## Power Supply

24v nominal 18v to 30vDC

4W – full alarm status

## User Menu

On power up the unit will be inhibited for a 120 second warm up period displayed as a countdown on the display (this may be overridden by pressing 1). To access the menu press 2 followed by the entry code 231, pressing 1 or 3 will allow travel through the menu and adjustment of settings, pressing 2 enables access into the selected menu field and on completion pressing 2 will confirm your selection.

1. **Exit**
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. **Inhibit**  
Inhibit all or individual sensors – amber display inhibit indication.
4. **Operating Mode**  
Selects status or repeater mode.
5. **Alarm Latching**  
All alarms unlatched, A1, A2 unlatched A3 latched or all latched.
6. **Relay Off Time**  
Set the relay off time for the 4 relays.
7. **Relay Status**  
Normally energized or normally de-energized.
8. **Relay 1 Mode (Low Alarm)**  
Option – Global A1, A2, A3, FLT or sounder, timed relay, individual sensor.
9. **Relay 2 Mode (High Alarm)**  
Option – Global A1, A2, A3, FLT or sounder, timed relay, individual sensor.
10. **Relay 3 Mode (Overrange)**  
Option – Global A1, A2, A3, FLT or sounder, timed relay, individual sensor.
11. **Relay 4 Mode (Fault)**  
Option – Global A1, A2, A3, FLT or sounder, timed relay, individual sensor.
12. **Factory Defaults**  
Loads factory defaults.
13. **Test**  
Turns each relay on and off, sounder, display colour and pixel check.
14. **PC to Panel**  
Reads in the text file sent from the PC.
15. **Panel to PC**  
Output the current setting to the PC.
16. **Temp & Voltage**  
Display the current temperature of the processor and the current PCB voltage.
17. **Diagnostic**  
Displays how many sensors are on the Canbus line and what alarm state the selected sensors are.
18. **External Fault/Mute**  
Select what input you want connector J12 to be an external fault or an External buzzer mute.
19. **Screen Colour (No Alarms)**  
Allows colour of backlight to be adjusted.
20. **Screen Colour (A1 Alarm)**  
Allows colour of backlight to be adjusted.
21. **Screen Colour (A2 Alarm)**  
Allows colour of backlight to be adjusted.
22. **Screen Colour (A3 Alarm)**  
Allows colour of backlight to be adjusted.
23. **Screen Colour (Fault)**  
Allows colour of backlight to be adjusted.
24. **Set Address**  
Set CAN Address 210 → 255
25. **Time to Alarm**  
Individual sensors.
26. **Exit**
27. **External Relay 1** (see 8)
27. **External Relay 2** (see 9)
27. **External Relay 3** (see 10)
27. **External Relay 4** (see 11)
27. **About**  
Software version

When fitted

## Factory Defaults

### Operating Mode

Status (4) (Green Screen)

### Alarm Latching

All latched. (5)

### Relay Off Time

5 Seconds (Minimum time delay). (6)

### Relay Status

Normally de-energized. (2)

**Relay 4 Mode** Fault relay. (11)

**Relay 3 Mode** Alarm 3 Over range. (10)

**Relay 2 Mode** Alarm 2 High. (9)

**Relay 1 Mode** Alarm 1 Low. (8)

### Screen Colours

No Alarm = Green (19) (Status indicator)

A1, A2, A3 = Red (20,21,22)

Fault = Amber (23)

### Address 210

## PC to Panel and Panel to PC

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

## Relays

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

**R1** = A1 alarm – Low alarm.

**R2** = A2 alarm – High alarm.

**R3** = A3 alarm – Over range alarm.

**R4** = Fault.

For options see menu 8, 9, 10, 11.

If **R1, R2, R3, R4** are set to Sounder in the menu, a 10 minute timeout can be enabled.

Relay inhibit warning – Amber display

## Display and Buzzer

### User Menu

The display backlight is set to blue.

### No Alarm or Fault

The display backlight is set to green.

### Unacknowledged Fault

The display backlight is flashing amber every 1 second and the buzzer is on.

### Acknowledged Fault

The display backlight is flashing amber every 1 second and the buzzer is off.

### Unacknowledged A1

The display backlight is flashing Red every 1 second and the buzzer is on.

### Acknowledged A1

The display backlight is flashing Red every 1 second and the buzzer is off.

### Unacknowledged A2

The display backlight is flashing Red every 0.5 seconds and the buzzer is on.

### Acknowledged A2

The display backlight is flashing Red every 0.5 seconds and the buzzer is off.

### Unacknowledged A3

The display backlight is flashing Red every 0.25 seconds and the buzzer is on.

### Acknowledged A3

The display backlight is flashing Red every 0.25 seconds and the buzzer is off.

### Inhibited

The display backlight is set to Amber and the buzzer is off

## Fault

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

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.

## Repeater Monitor

### Normal Operation

Displays Gas reading and units on the top line and sensor number on the bottom line.

### A1 Alarm

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

### A2 Alarm

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

### A3 Alarm

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

### Sensor Fault

Displays Gas reading and units on the top line and sensor number and Fault on the bottom line.

### Sensor Timeout

Displays Timeout on the top line and sensor number and Fault on the bottom line.

### External Fault

Displays External on top line and Fault on the bottom line

### Sensor Selected, but not connected

Displays Missing on the top line and sensor number and Fault on the bottom line.

### No Sensors Selected

Displays No Sensors on the top line and Selected on the bottom line.

### Sensor Display

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

### Sensor Inhibited

Displays Gas reading and units on the top line and sensor number and Inhib on the bottom line.

## Status Indicator

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

**No Alarm or Fault** = Safe

**A1** = Low Alarm

**A2** = High Alarm

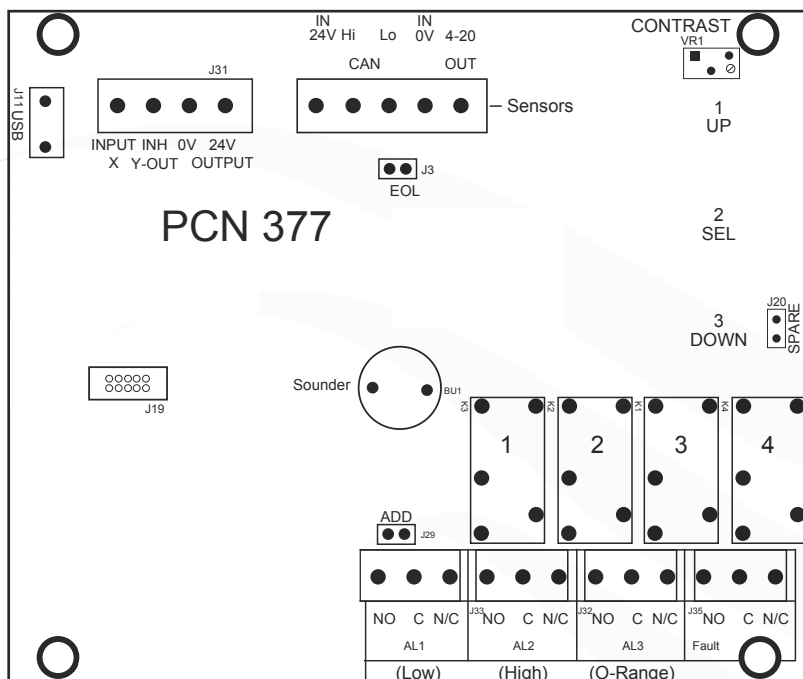
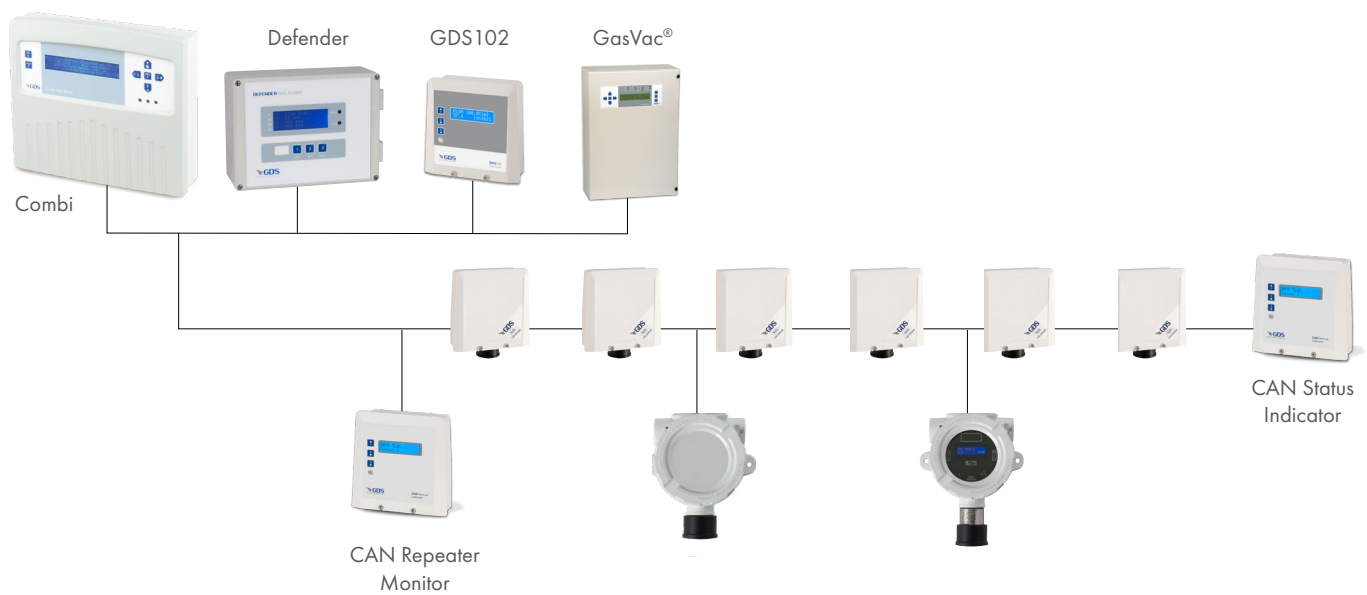
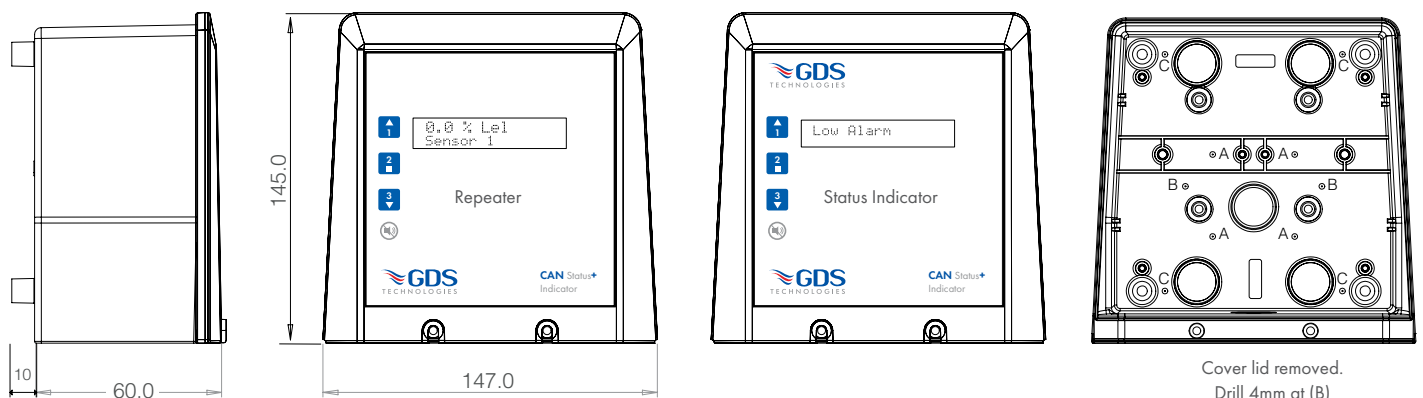
**A3** = Overrange Alarm

**Fault** = Fault

**Inhibit** = Inhibit

**External Fault** = External Fault

# CAN STATUS INDICATOR+



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E: sales@gds-technologies.co.uk T: +44 (0)113 286 0166

GDS TECHNOLOGIES LTD | FUSION POINT | ASH LANE | GARFORTH | LEEDS | LS25 2GA | UK



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