## IN USE

### +ve Safety™

+ve Safety™ (Positive Safety) provides positive confirmation of detector status prior to deployment in the field or on return from site. The front mount tri-colour LED gives the Safety Manager or Supervisor unrivalled visibility of the status of the Operator's detector.

### Charging

- To charge, insert the charger connected into the socket at the back of the Gas-Pro.
- The display will show the battery filling and RED LED's will flash red until the battery is full, when they will flash green.

## **Gas Testing**

Crowcon recommends regular gas tests (also known as bump tests) to confirm sensor operation. A number of flexible and simple solutions are available:

- **Q-Test** Quick and simple in-filed gas test and calibration solution.
- I-Test Intelligent wall or desk mount, powered data management solution.
- S-Test Service and maintenance solution for up to 5 detectors.

If configured to do so, test and calibration can also be completed manually by using the non-pumped flow plate and following prompts on the screen. If a test should fail or calibration is due and the Gas-Pro has been manually zeroed in the last 15 minutes a calibration can also be completed.

See the Gas-Pro User and Operator manual for details.

#### Safety Information

- Gas-Pro is a hazardous area certified gas detector and as such must be operated and maintained in strict accordance with the instructions, warnings and label information.
- Read and understand all instructions in the operation section of "Gas-Pro User & Operator Manual", P/N M07995 prior to use.
- The Gas-Pro re-chargeable battery must only be charged in nonhazardous (safe) areas.
- Gas-Pro is certified for use in ambient temperatures in the range -20°C to +55°C (-4 to 131°F).

### **Certification Information**

- IECEX: Ex d ia IIC T4 Gb Tamb -20°C to +55°C IECEX ULD 11.0004X
- ATEX: ( k) II 2 G Ex d ia IIC T4 Gb Tamb -20°C to +55°C DEMKO 11 ATEX 1031772X
- UL: Gas detector use in hazardous locations Class 1 Division 1, Groups A, B, C and D only as to intrinsic safety.

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## **Gas-Pro** Multi-Gas Confined Space Monitor



M07998/Eng Issue 2 Jan 2015

+ve Safety



CROWCON Detecting Gas Saving Lives

### SET-UP

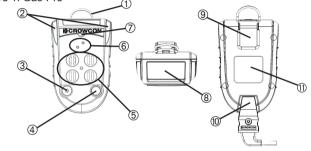
### Prior to use

Before use, the Gas-Pro should always be checked for any signs of physical damage.

Read and understand the User and Operator manual prior to use.

### **Gas-Pro orientation**

### Figure 1: Gas-Pro



④ Operator button ⑦ +ve Safety™ indicator ① Charging cable ① D-ring ② Alarm bars ⑤ Sensor apertures ⑧ Dual colour LCD display Certification label © Pump inlet/outlet ③ Alligator clip ③ Sounder

## DISPLAY

## Home Screen

- Gas-Pro simultaneously displays up to 5 gases.
- The dual colour backlight aids recognition of alarm events.
- The home icon will invert to show normal operation.
- The backlight is green and changes to red during an alarm highlighting the gas in alarm.

## **OPERATION** Switching On/Off

- In clean air turn on the Gas-Pro by holding down the operator button for 3 audible blips. The Gas-Pro will warm up, going through a series of automatic processes.
- To turn off, press and hold the operator button. During the 4 second countdown hold the button down until the countdown has finished.

## **Quick View**

A momentary press of the operator button allows the user to see the gas type and unit, battery level, user and +ve Safety™ status.

### Alarms

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- Gas-Pro offers audible, visual and vibrate alarms as standard.
- Each gas has 2 instantaneous alarms and toxics also have TWA alarms.
- When in alarm the display backlight will change from green to red and highlight the gas in alarm.
- When the Gas-Pro warns of a low battery, the sounder will emit an audible • double blip every 5 seconds and the +ve Safety™ LED will go red. This means the battery has at least 30 minutes of battery life remaining. After 30 minutes the Gas-Pro will enter full alarm state and the battery icon will flash empty as shut down is imminent.

### **Backlight**

 The backlight is configurable but set as standard to come on at the press of the operator button or during alarm.

### Pump

- If the internal pump option has been chosen, the pump is activated by • attaching the pumped flow plate.
- Ensure the gasket is clean and undamaged prior to placement.
- The pump test will activate every time the flow plate is attached the user ٠ will be prompted to cover the inlet to ensure a tight seal. Gas-Pro will indicate a pass or fail, if failed the flow plate should be removed, checked and reapplied.

## **USER MENU**

 Access the user menu by double clicking the operator button, then scroll through the menu using single clicks. Once the correct function is highlighted, double click to choose.

#### ŵç Zero

- During start-up the operator has the option to perform an autozero, or leave the countdown if an autozero is not required/possible.
- A manual zero can be performed at any time following start up and is needed less than 15 minutes prior to running a manual calibration.

## Time Weighted Average (TWA)

This function allows the 8 hour TWA to be reviewed.

## **Pre-Entry Check (PEC)**

This function is intended for sampling air of unknown guality before gaining access to it (e.g. going under ground through a manhole cover) thereby avoiding unnecessary exposure.

## **Peak Review**

This function allows the highest level of each gas detected to be reviewed during the last 8 hours, 12 hours or since turned on.

# Settings

User setting: Up to 5 different users can be loaded into Gas-Pro using the Portables-Pro PC application.

Pump setting: This function, which is only present if the Gas-Pro has an internal pump, allows authorised users to turn the pump on or off.

**Sounder volume:** This function allows authorised users to change the sounder volume between 2 levels.







