

The SafeGuard is the latest addition to the HPC range of advanced Air Quality Monitoring & Measurement systems. This configurable test instrument is available for monitoring either atmospheric or compressed-air supplies (up to 10 barg). Up to 6 different sensors can be fitted to suit a client's individual requirements. As standard the compressed-air version is fitted with a dewpoint meter rated down to -20°C PDP.



The unit has a volt free contact to allow it to be used for a range of scenarios such as sounding an external alarm or shutting down the compressor. Alarm settings and the datalog file can be configured by the user over a wireless interface. Designed for challenging ambient light conditions the large 3.5" LCD display shows live sensor readings. If any of these exceed the configurable alarms levels they automatically change colour to indicate which of them are now in alarm. At the same time a 360° edge light will warn users who cannot directly see the screen that the unit is in alarm.

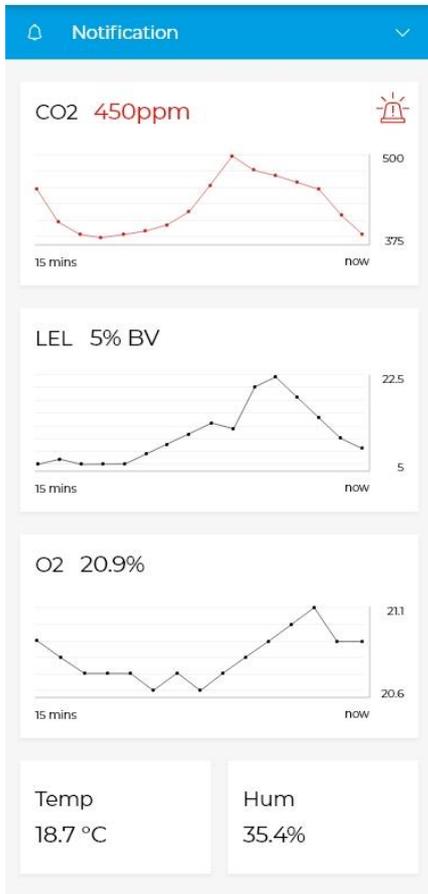
The instrument can be powered directly from a 110/230V mains supply via an adaptor (or 12/24V AC/DC) and also incorporates rechargeable batteries as a back-up providing up to 8 hours of run time.

Depending on the number of sensors fitted the user can display the sensor readings in a variety of formats.



The SafeGuard can be configured using a local WiFi connection which is available from a smart phone/tablet device; this allows alarm readings and datalogging interval to be set. The datalog can also be downloaded as a CSV file and includes the minimum, maximum and average sensor reading during the user selected datalogging interval.

Screen shots of instrument configuration screens:



The Alarm levels screen allows setting minimum and maximum levels for sensors. CO2 is set to Min: 375 ppm, Max: 500 ppm. LEL is Disabled. O2 is set to Min: 20.6 %, Max: 21.1 %. Temp is set to Min: 16 °C, Max: 22 °C. Hum is set to Min: 10 %, Max: 40 %. A 'save settings' button is at the bottom.

The Log storage screen shows '2.5 MB of 5 MB used'. A 'Data Log' section lists logs from 17.01.2020 to 26.01.2020, each with download and delete icons.

| Model          | Pressure      |                                     | Weight | Connections |
|----------------|---------------|-------------------------------------|--------|-------------|
| Compressed-air | 2-10 barg     | 160mm long x 100mm high x 90mm deep | 0.6Kg  | Rectus 20KA |
|                |               | Dewpoint meter +10 to -20°C PDP     |        |             |
| Atmospheric    | 50 metre draw | 160mm long x 100mm high x 85mm deep | 0.5Kg  | Luer Lock   |

| Up to 6 different sensors can be fitted – the most popular options include |            |                                |                  |          |                         |
|--|------------|--------------------------------|------------------|----------|-------------------------|
| Sensors  | Range      | Sensor type                    | Sensors          | Range    | Sensor type             |
| O <sub>2</sub>   | 0-25%      | Electrochemical                | LEL              | 0-100%   | Non-Dispersive Infrared |
| CO   | 0-20 PPM   | Electrochemical                | H <sub>2</sub> S | 0-10 PPM | Electrochemical         |
| CO <sub>2</sub>  | 0-5000 PPM | Non-Dispersive Infrared        | NO               | 0-20 PPM | Electrochemical         |
| VOCs   | 0-40 PPM   | Photoionisation Detector (PID) | NO <sub>2</sub>  | 0-20 PPM | Electrochemical         |
| SO <sub>2</sub>  | 0-50 PPM   | Electrochemical                |                  |          |                         |

Temperature Sensor -10 to 40°C and 0-100% Relative Humidity Sensor fitted as standard

**If you require an alternative sensor please contact HPC**