

# Clip SGD

Portable Gas Detection Equipment



- | Easy to maintain
- | User friendly
- | Efficient



# Clip SGD

## Personal Maintenance Free Single Gas Monitor

When lives and property are at risk and you need gas detection equipment that is totally reliable, you need Crowcon. For over 40 years Crowcon has been developing and manufacturing high quality products with a reputation for reliability and technical innovation.

Crowcon provide both single gas and multigas monitors for personal safety and portable monitoring applications providing protection against a wide range of industrial gas hazards.



### Choosing the portable gas detector for your needs

Clip Single Gas Detector (SGD) is designed for use in hazardous areas and offers reliable and durable fixed life monitoring in a compact, lightweight and maintenance-free package. Clip SGD has a 2-year life and is available for hydrogen sulphide ( $H_2S$ ), carbon monoxide (CO) or oxygen ( $O_2$ ).

Clip SGD is designed to withstand the harshest industrial working conditions and delivers industry leading alarm time, changeable alarm levels and event logging as well as user-friendly bump test and calibration solutions.



### Easy to maintain

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| Changeable alarm levels    | Ensures compliance with changing regulations or company procedure      |
| Clip SGD docking station   | Keeps monitors correctly configured without service or technician team |
| 'Bump test due' indication | Alerts the user and team members that the monitor is not compliant     |

### User friendly

|                         |                                       |
|-------------------------|---------------------------------------|
| Compact and lightweight | Non-intrusive and comfortable to wear |
| Single button operation | Delivers simplicity for users         |
|                         | Reduces training time                 |

### Efficient

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| Wide operating temperature range | Effective in a wide variety of harsh environments |
| IP66 and IP67                    |                                                   |

### Accurate

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| Countdown and real time readings available | 0.1 resolution for hydrogen sulphide |
|--------------------------------------------|--------------------------------------|

## Clip SGD docking station

Bump testing portable monitors is becoming more and more prevalent in the market. Ensuring sensors are responding to a known concentration of gas remains the best way to verify the monitor has not become impeded. The Clip SGD docking station provides bump testing, event management and calibration from a simple to use multi-unit station and gives fleet or safety managers the ability to update configurations on large fleets. It also maintains the all important event logs that demonstrate users are working within company requirements.

|                                   |                                                                                                     |
|-----------------------------------|-----------------------------------------------------------------------------------------------------|
| Gas usage controlled              | Lowers the cost of bump testing                                                                     |
| Manages calibration               | Manages calibration and stores records of the event                                                 |
| Flexible                          | Can monitor a wide array of test parameters and detector settings, providing excellent traceability |
| All data is stored in a USB stick | Simple to transfer the data                                                                         |
| Rechargeable battery or power     | Ideal for in-vehicle or multi-site use                                                              |
| Holds up to 4 Clips at once       | Faster testing of larger fleets                                                                     |



Please see the back page for full technical specifications.

## Clip SGD Specification:

|                                |                  |                                                                                                                          |
|--------------------------------|------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>Size</b>                    |                  | 91 x 54 x 32mm (3.6 x 2.1 x 1.3ins)                                                                                      |
| <b>Weight</b>                  |                  | 93g (2.7oz) toxic, 104g (3.7oz) O <sub>2</sub>                                                                           |
| <b>Temperature</b>             | H <sub>2</sub> S | -40°C to + 50°C (-40°F to +122°F)                                                                                        |
|                                | CO               | -40°C to + 50°C (-40°F to +122°F)                                                                                        |
|                                | O <sub>2</sub>   | -35°C to + 50°C (-31°F to +122°F)                                                                                        |
| <b>Humidity</b>                |                  | 5% to 95% non-condensing RH                                                                                              |
| <b>Alarms</b>                  |                  | Top, front and side visual LEDs<br>90 dB audible alert at 10cm<br>Vibrate                                                |
| <b>Event log</b>               |                  | Most recent 30 events                                                                                                    |
| <b>Ingress Protection</b>      |                  | IP66 and IP67                                                                                                            |
| <b>Tests</b>                   |                  | Self test on activation and every 20hrs: continuous automatic battery integrity tests                                    |
| <b>Operational life</b>        |                  | 2 years > 2900 alarm minutes*                                                                                            |
| <b>Shelf life</b>              |                  | 6-month shelf life prior to activation<br>Shown on box label                                                             |
| <b>Compliance</b>              |                  | EMC Directive 2004/108/EC, FCC and IECES                                                                                 |
| <b>Certification</b>           |                  | UL-913 & CSA-C22.2 No.157<br>Class 1 Div 1 & 2, Groups A, B, C and D<br>ATEX II 1G Ex ia IIC T4 Ga<br>IECEx Ex ia IIC T4 |
| <b>Warranty</b>                | Clip SGD         | 2 years from activation*                                                                                                 |
| <b>Sensor range</b>            | H <sub>2</sub> S | 0-100ppm                                                                                                                 |
|                                | CO               | 0-300ppm                                                                                                                 |
|                                | O <sub>2</sub>   | 0-30% vol.                                                                                                               |
| <b>Communication accessory</b> |                  | USB IR link for event download and configuration                                                                         |

\*4 alarm minutes per day

## Gases and ranges

Ordering options include a range of region specific alarm levels.

## Clip SGD:

| Gas              | Part number | Alarm 1    | Alarm 2    |
|------------------|-------------|------------|------------|
| H <sub>2</sub> S | CL-H-2      | 2ppm       | 5ppm       |
| H <sub>2</sub> S | CL-H-5      | 5ppm       | 10ppm      |
| H <sub>2</sub> S | CLH-10      | 10ppm      | 15ppm      |
| CO               | CL-C-25     | 25ppm      | 50ppm      |
| CO               | CL-C-30     | 30ppm      | 100ppm     |
| CO               | CL-C-35     | 35ppm      | 50ppm      |
| O <sub>2</sub>   | CL-O-19     | 19% vol.   | 23.5% vol. |
| O <sub>2</sub>   | CL-O-19.5   | 19.5% vol. | 23.5% vol. |

## Accessories

| Part       | Description              |
|------------|--------------------------|
| CL-Test    | Clip SGD docking station |
| CL-IR-link | Clip SGD IR link         |

Crowcon reserves the right to change the design or specification of the product without notice. Check [www.crowcon.com](http://www.crowcon.com) for updates.

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