

# CO2 Mk90 Stand-alone sensor SET (2090)

LogiCO2 Mk90 Sensor including Horn/Strobe



Mk90 in no alarm mode



Mk90 in alarm mode

## TECHNICAL DATA CO2 MK90 DETECTOR SET

|                               |                            |
|-------------------------------|----------------------------|
| <b>Power supply:</b>          | 12-24V DC                  |
| <b>Power consumption:</b>     | 117 mA peak, 56 mA average |
| <b>Serial communication:</b>  | Modbus protocol over RS485 |
| <b>Ingression protection:</b> | IP54                       |

## TECHNICAL DATA HORN/STROBE

|                             |   |
|-----------------------------|---|
| <b>Nominal voltage:</b>     | 18-24V DC                                 |
| <b>Power consumption:</b>   | 80 mA peak @ 24V DC supply                |
| <b>Decibel:</b>             | 110 dB / 1 m                              |
| <b>Flash intensity:</b>     | 115 CD                                    |
| <b>Flash frequency:</b>     | 65/min                                    |
| <b>Ambient temperature:</b> | -5°C to +50°C<br>(+23°F to +122°F)        |
| <b>Dimensions (LxWxD):</b>  | 134 x 115 x 61 mm /<br>5.3" x 4.5" x 2.4" |
| <b>Ingress protection:</b>  | IP65                                      |

## FUNCTION

The Mk90 is a CO2 monitor with integrated sound and light Alarm indication, designed to measure CO2 concentration in a confined space environment. It provides an alarm in the event that a CO2 level considered unhealthy/dangerous is reached, in accordance with existing safety codes, in the area being monitored.

Installed properly, the Mk90 will continuously monitor the CO2 concentration that it is exposed to. A light emitting diode (LED) indicates that the Mk90 is running properly. The Mk90 performs a self-calibration at regular intervals insuring calibration under normal circumstances. This eliminates the need of manual calibration in a normal environment. The sensor uses infrared analysis for detecting CO2.

## ALTITUDE ADJUSTMENT

The Mk90 CO2 sensor has a manual altitude adjustment.

## ALARM LEVELS

The alarm levels can be changed to any level to comply with all local Safety Codes and legislations.

The default CO2 alarm levels are:

|                   |                          |
|-------------------|--------------------------|
| 5 000 ppm         | CO2 Awareness indication |
| 5 000 ppm         | TWA Alarm/8h (PEL)       |
| 1.5% (15 000 ppm) | Low-Alarm ½ STEL         |
| 3.0% (30 000 ppm) | High-Alarm STEL          |

## APPROVALS

CE, EN55022 :2006/A1 :2007, EN55024/A2 :2003, EN61000-3-2 : 2006, EN61000-3-3/A2 :2006, AS/NZS CISPR 22 :2006, IEC/EN :IT55022/55024, LNE Règle de certification NF 128 rev 12 Nov 2007 (§2.1.2.4.3.) for the S8 CO2 Sensor Module. UL Certified.DIN6653-2 2015-06.

In the United States, the ALERT Mk90 system is in compliance with International Fire Code (IFC) 2015 Edition Section 5307.5.2.2, CGA G-6.5 2013, NFPA 55 2013 Edition 13.2.2 and NBIC Part 1 Supplement 3 S 3.4, as well as OSHA – PEL (Permissible Exposure Limit) of TWA/8 hrs for CO2.

In compliance with EU Commission Directive 2006/15/EC of 7 Feb 2006.

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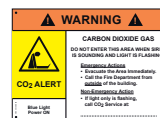
CO2 Sensor Mk90



Horn/Strobe



SIGN CO2 SENSOR MK90 EN



SIGN CO2 H/S B EN

### ORDERING EXAMPLE

| Item code | Description              |
|-----------|--------------------------|
| 2090      | CO2 Mk90 Stand Alone SET |

#### 2090 consists of:

|                         |   |
|-------------------------|---|
|                         | CO2 Mk90, incl. 1 Cable blue 10m and 1 Cable red 5m                     |
| 0438                    | Horn/Strobe LED amber glass with blue indicator, incl 1m cable and sign |
| 0519                    | RJ45 1-1 split  |
| 0021                    | Transformer 1A, incl Plug UL, SE, AU, UK for transformer                |
| HF-MK1004               | Plug-lock   |
|                         | Bag with 3 Collar Seals, 6 stripes, 24 screws and plugs                 |
| SIGN CO2 SENSOR MK90 EN | Sign CO2 Sensor Mk90 EN   |
| SIGN CO2 H/S B EN       | Sign Horn/strobe Mk9/90 EN  |
| HFE1153                 | Installation manual Mk90  |
| HFE1155                 | Quick-guide Mk90  |

### ACCESSORIES

| Item code | Description                                     |
|-----------|---|
| 0328      | CO2 Central Unit Mk9 KIT 4 A                    |
| 0471      | RCB with delay for fire alarm, 1 m cable        |
| 0468      | SMB Safe mode box - shut off valve              |
| 0560      | Bag with Collar Seal 10 pcs incl stripes 20 pcs |

