

# CO2 Mk90 Stand-alone sensor Base 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 (+23°F to +122°F)
<b>Dimensions (LxWxD):</b>	134 x 115 x 61 mm / 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% (3 0000 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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## LogiCO2 Mk90 Sensor including Horn/Strobe



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

