CO2 MK90 STAND-ALONE SENSOR SET (2090)

CO2 Mk90 Sensor including Horn/Strobe





Mk90 in alarm mode

TECHNICAL DATA CO2 MK90 DETECTOR SET

Operating Principle: Non-dispersive infrared (NDIR) Measurement range: 0.00 to 6,7% volume CO2 Operating temperature: 0 to 45°C (Sensor works from

-20°C but values valid only for

0-45 °C)

Operating humidity: 0-95% RH non condensed

-40 to + 70 °C Storage temperature: Power supply: 24V DC ± 10%

Power consumption: 117 mA peak, 56 mA average Serial communication: Modbus protocol over RS485

Output: Two 24 volt transistor outputs

Automatic calibration: Several times per year Dimensions (LxWxD): 90 x 161 x 38 mm / 3.5" x 6.3" x 1.5"

Ingression protection: IP54

TECHNICAL DATA HORN/STROBE

Nominal voltage: 18-24V DC

120 mA @ 24V DC supply Average current:

Decibel: 110 dB / 1 m Flash intensity: 115 CD Flash frequency: 65/min

Ambient temperature: -5°C to +50°C

(+23°F to +122°F)

134 x 115 x 61 mm / Dimensions (LxWxD):

5.3" x 4.5" x 2.4"

Ingress protection: **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. DIN6653-2:2004-03.

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



SIGN CO2 SENSOR MK90 EN



Horn/Strobe



SIGN CO2 H/S B EN

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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 H/S B EN
Sign Horn/strobe Mk9/90 EN
HFE1153
Installation manual Mk90
HFE1155
Quick-guide Mk90

ACCESSORIES

Item codeDescription0328CO2 Central Unit Mk9 KIT 4 A0471RCB with delay for fire alarm, 1 m cable0468SMB Safe mode box - shut off valve0560Bag with Collar Seal 10 pcs incl stripes 20 pcs



