

CO2 ALERT MK10 DETECTOR SET 2 A (2025 UL)

CO2 Alert Mk10 Detector including Horn/Strobe



TECHNICAL DATA CO2 ALERT MK10

Operating Principle:	Non-dispersive infrared (NDIR)
Measurement range:	0.00 to 6,7% volume CO ₂
Accuracy:	Accuracy ±200 ppm ±10% of reading (Notes 1 and 2). Note 1: In normal IAQ applications. The product is delivered factory calibrated, but accuracy is defined after minimum 180 days of continuous operation with ABC. However, some industrial applications do require maintenance. Please, contact LogiCO2 for further information! Note 2: Accuracy is specified over operating temperature range. Specification is referenced to certified calibration mixtures. Uncertainty of calibration gas mixtures (+-2% currently) is to be added to the specified accuracy for absolute measurements.
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
Storage temperature:	-40 to + 70 °C
Power supply:	24V DC ± 10%
Power consumption:	600 mA peak, 30 mA average
Serial communication:	Modbus protocol over RS485
Output:	Two 24 volt transistor outputs
Automatic calibration:	60 days
Weight:	400 grams
Dimension:	Ø 90 mm, height 120 mm
Ingression protection:	IP54

TECHNICAL DATA HORN/STROBE

Nominal voltage:	18-24V DC
Average current:	120 mA @ 24V DC supply
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)
Dimensions (LxWxD):	134 x 115 x 61 mm / 5.3" x 4.5" x 2.4"
Ingress protection:	IPX0

FUNCTION

The ALERT Mk10 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 ALERT Mk10 will continuously monitor the CO₂ concentration that it is exposed to. A Light Emitting Diode (LED) indicates that the ALERT Mk10 is running properly. The ALERT Mk10 performs a self-calibration at regular intervals insuring calibration under normal circumstances. This eliminates the need of manual calibration in a normal restaurant environment.

ALTITUDE ADJUSTMENT

Height over sea for Mk10 CO₂ sensor is made via CO₂ Alert UIP program. A USB-Modbus Interface adapter, with item number 0953, must be used to make the change. The software can be downloaded free of charged on www.logico2.com

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 Mk10 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 Alert Mk10



Horn/Strobe



SIGN ALERT MK10 NU2 EN



SIGN ALERT MK10 NU2 ES



SIGN CO2 H/S B NU2 EN



SIGN CO2 SENSOR EN

ORDERING EXAMPLE

Item code	Description
2025 NUCO2	CO2 Alert Mk10 Detector SET 2 A

2025 NUCO2 consists of:

	CO2 Alert Mk10, incl. 1 Cable blue 10m and 1 Cable red 5m
0199	Protect bar
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 for transformer
HF-MK1004	Plug-lock
	Bag with 3 Collar Seals, 6 stripes, 24 screws and plugs
SIGN ALERT MK10 NU2 EN	Sign CO2 Alert Mk10 EN
SIGN ALERT MK10 NU2 ES	Sign CO2 Alert Mk10 ES
SIGN CO2 H/S B NU2 EN	Sign Horn/strobe Mk9/10 EN
SIGN CO2 SENSOR EN	Sign CO2 Sensor Mk9/10 EN
HFE1081	Installation manual Mk10
HFE1058	Quick-guide Mk10

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

