UniCo

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UL2034

Carbon Monoxide Detection System

CO-SENSOR
CO300
✳ 0294
CONTROL APPLICATIONS Ltd.

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General

Carbon monoxide (CO) is a highly poisonous gas that is colourless, odourless and tasteless and is generated during the combustion of any fossil fuels.

UniCo carbon monoxide systems are specifically designed for monitoring, controlling and data-logging CO levels in commercial parking areas.

UniCo systems, which are made up of controllers and sensors, offer superior technology, especially designed to solve problems of gas detection and ventilation.

Sensor

The UniCo sensor has excellent stability, high accuracy and a long lifetime.
The sensor can communicate via RS485 with a central controller or computer for monitoring, controlling and data-logging purposes.

Features

- High accuracy and reliability
- UL 2034 conformity for cross-interference
- Addressable network technology
- Significant savings on wiring
- Average lifetime: greater than 5 years
- Low cross-sensitivity to other interfering gases
- Low cost and high efficiency

Specifications

- Operating temp. range: -20 - +50°C
- Operating RH range: 10 - 95% RH
- Power requirement: 24 VAC/DC, 8 VA
- Shipping Weight: 330g
- Dimensions: 115 x 95 x 41mm
- Sensing method: electrochemical cell
- Measurement Range: 0-300 ppm
- Sensitivity: ±1 ppm
- Max. deviation from linearity: 1%
- Max. response time: 60 sec
- Monitoring/reading: continuous
- Orientation sensitivity: none
- Storage conditions:
  - -40 to 70°C ; 10 - 95% RH

Controller

Stand-alone universal direct digital controller (DDC) with RS485/232 communication to the sensors and TCP/IP communication via ethernet to the control centre.
The controller has a 512kB memory, most of which is devoted to data-logging and a liquid crystal display (LCD) which enables the user to locally monitor and control CO levels and alarms.

Features

- Stand alone operation with internal clock
- Historical CO level data-logging
- High visibility LCD for local indication and alarms
- Up to 64 I/O points and up to 120 sensors per controller
- Ladder/flow diagram programming
- Low cost

Specifications

- Operating temp. range: 0-50°C
- Operating RH range: 10 – 95% RH
- Power requirement: 24 VAC ± 20%, 50 VA
- Shipping Weight: 850g
- Frequency: 50/60 Hz
- Dimensions: 320 x 105 x 70mm

CAL, CO, 02/01