

Carbon Dioxide Monitor



- Continuous monitoring of carbon dioxide in air
- Long term stability - infrequent calibration
- Wide selection of sensors to match the range and accuracy of your application
- 0 to 3000 ppm ~ 0 - 100%
- Low maintenance
- Adjustable alarms, audible, visual, and relays.
- Easy to read 4 digit LCD display
- Built in pump
- ISO9002
- 110V /230V AC power

Introduction

The Guardian gas monitor uses a special non dispersive dual wavelength infra red sensor unit which has no moving parts. This ensures the long term stability of the instrument without the need for frequent recalibration. The gas is metered into the measuring system with a built in sample pump. Remote sampling can be performed by connecting a 5 mm diam sample tube to the gas inlet. This tube can be up to 90 feet long. The instrument is enclosed inside a tough plastic enclosure rated IP54 against the ingress of water and dust further increasing its long term reliability. The two independent alarm levels are set on the front panel and other options for analog output, alarm designation, buzzer and flow indication are set on on a dipswitch.

Specification	
Measuring ranges Carbon Dioxide	0 -3000 ppm, 0 - 1%, 0 - 3%, 0 - 5%, 0- 10%, 0 - 30%, 0 - 100%
Accuracy	+/- 2% of the range
Stability	+/- 2% of the range over 12 months
Repeatability	at zero +/- 0.3% at span +/- 1.5 %
Response time	T90 = 30 secs from sample inlet
Operating temperature	0 - 40 degs C
Warm up time	operational 3 mins
Humidity	unaffected 0 - 100% RH non condensing
Alarms - modes set up with a dipswitch inside the unit	2 alarms setting each with high/low relay contacts for each alarm norm/latch Buzzer for one or both alarms Low flow alarm/warning
Bit Switch Parameters	:
Analogue output	4 - 20 mA or 0 - 20 mA
Alarm settings	1 high/low 2 high/low
Alarm mode	normal or latch output
Buzzer	on both or on 2 only
Low flow warning	warning or fault indicator
Display	4 digit LCD and 4 LEDs for alarms and flow
Relay contacts	8 A 24 DC
Pump	1 L/min
Power	110/220 VAC
Mechanical	Weight 2.5 kg, Dimensions 267 x 258 x 148 mm. IP54 case
Ordering Information	
GuardCO2	Specify desired range for CO2 xxxx-xxxx
CO2RS232	RS232 card for above

Topac Inc

101 Derby St. Hingham MA 02043 USA. Tel 781 740 8778 Fax 781 740 8779
www.topac.com