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Model 360E

Gas Filter Correlation CO₂ Analyzer

The Model 360E measures carbon dioxide CO₂ by comparing infrared energy absorbed by a sample to that absorbed by a reference according to the Beer-Lambert law. This is accomplished by using a Gas Filter Wheel which alternately allows a high energy infrared light source to pass through a CO₂ filled chamber and a chamber with no CO₂ present.

The light then travels through the sample cell, which has a folded path. The energy loss through the sample cell is compared with the zero reference signal provided by the gas filter to produce an output proportional to concentration, with little effect from interfering gases within the sample. A nitrogen purge system is provided for the GFC wheel assembly to eliminate the effects of ambient CO₂, if necessary.

This design produces superior zero and span stability and a high signal-to-noise ratio, allowing excellent sensitivity. Multi-tasking software gives real time indication of numerous operating parameters and provides automatic alarms if diagnostic limits are exceeded.

Built-in data acquisition and internal memory allows logging multiple parameters including average and instantaneous values, calibration data, and operating parameters. Stored data can be retrieved via the RS-232 port, ethernet, or from the front panel.

The Model 360E features rugged construction and is designed to perform with a minimum of attention. Regular maintenance is greatly simplified through the use of modularization construction.

Features

- Standard two year warranty
- Ranges, 0-2 ppm to 0-2000 ppm, user selectable
- Gas Filter Wheel for CO₂ specific measurement
- GFC wheel guaranteed for 5 years
- Multi-tasking software allows viewing of test variables during operation
- Continuous self checking with alarms
- Bi-directional RS-232 / RS-485 / Ethernet
- Digital status outputs indicate instrument operating condition
- Adaptive signal filtering optimizes response time
- Temperature & Pressure compensation
- Internal data logging with 1 min to 24 hour averages
- APIcom remote operation software



Specifications	
Ranges:	0-2 ppm to 0-2000 ppm full scale, user selectable
Units:	Dual, independent, and auto ranging supported ppb, ppm, µg/m ³ , mg/m ³ , %
Zero noise:	< 0.1 ppm (RMS)
Span noise:	< 1.0% of reading above 100 ppm (RMS)
Lower Detectable Limit (LDL):	0.2 ppm
Zero drift:	< 0.25 ppm/24 hours, < 0.5 ppm/7 days
Span drift:	< 0.5% of reading/24 hours, < 1% of reading/7 days
Lag time:	10 seconds
Rise and Fall Time:	< 60 seconds to 95%
Linearity:	1% of full scale
Precision:	0.5% of reading
Sample Flow:	

Sample Flow Rate:	800 scc/min ±1 0%
Operating Temperature Range:	5 - 40° C
Dimensions (HxWxD):	7" (178 mm) x 17" (432 mm) x 23.5" (597 mm)
Weight:	40 lbs (17 kg)
Power:	100V 50/60 Hz, 115V 60 Hz, 220V 50/60 Hz, 230V 50 Hz, 240V 50 Hz, 250W
Analog outputs:	10V, 5V, 1V, 0.1V, selectable
Recorder Offset:	±10%
Serial Outputs:	RS-232 and RS-485, or Ethernet
Status (Digital):	8 outputs, 6 inputs (opto-isolated), 4 alarm outputs (optional)
Current Output:	Optional 4-20mA isolated outputs (select up to three channels)

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