



Model T360M Mid-Range Gas Filter Correlation CO₂ Analyzer

The Model T360M $\rm CO_2$ analyzer measures Carbon Dioxide by comparing infrared energy absorbed by a sample to that absorbed by a reference gas according to the Beer-Lambert law. Using a Gas Filter Correlation Wheel, a high-energy IR light source is alternately passed through a $\rm CO_2$ filled chamber and a chamber with no $\rm CO_2$ present. The light path then travels through the sample cell, which has a folded path of 1.28 meters.

The energy loss through the sample cell is compared with the reference signal provided by the filter wheel to produce a signal proportional to concentration, with little effect from interfering gases within the sample. This design produces excellent zero and span stability and high signal to noise ratio, allowing excellent performance over a wide concentration range, making this instrument an ideal choice for ${\rm CO}_2$ reporting requirements associated with dilution CEMS.

All T Series instruments offer an advanced color display, capacitive touch screen, intuitive user interface, flexible I/O, and built-in data acquisition capability. All instrument set up, control and access to stored data and diagnostic information is available through the front panel, or via RS232, Ethernet, or USB com ports either locally or by remote connection using the included APlcom™ software.

- Ranges: 0-4 ppm to 0-4,000 ppm, user selectable
- Dual ranges and auto ranging
- Large, vivid, and durable color graphics display with touch screen interface
- Ethernet, RS-232, and (optional)
 USB com ports
- Front panel USB connections for peripheral devices and firmware upgrades
- 8 analog inputs (optional)
- Adaptive signal filtering optimizes response time
- Temperature & pressure compensation
- Comprehensive internal data logging with programmable averaging periods
- Ability to log virtually any operating parameter
- Two-year warranty
- >> Five-year warranty on GFC wheel

Specifications

General Min: 0-4 ppm Full scale Ranges: Max: 0-4,000 ppm Full scale (selectable, dual ranges and auto ranging supported) Measurement Units: ppb, ppm, µg/m³, mg/m³, % (selectable) Zero Noise: < 0.2 ppm (RMS) < 1% of reading (RMS) Span Noise: Lower Detectable Limit: < 0.4 ppm Zero Drift: < 0.5 ppm/24 hours Span Drift: < 0.5% of reading/24 hours Lag Time: 10 seconds Rise and Fall Time: < 60 seconds to 95% Linearity: 1% of full scale Precision: 0.5% of reading 800 cm³/min ±10% Sample Flow Rate: **Electrical Specifications** Power Requirements: 100V-120V, 220V-240V, 50/60 Hz Analog Output Ranges: 10V, 5V, 1V, 0.1V (selectable) Recorder Offset: ±10% **Communication Specifications** Included I/O: 1 x Ethernet: 10/100Base-T 2 x RS232 (300-115,200 baud) 2 x USB device ports 8 x opto-isolated digital outputs 6 x opto-isolated digital inputs 4 x analog outputs Optional I/O: 1 x USB com port 1 x RS485 8 x analog inputs (0-10V, 12-bit) 4 x digital alarm outputs Multidrop RS232 3 x 4-20mA current outputs **Physical Specifications** Operating Temperature Range: 5 - 40°C 7" x 17" x 23.5" (178 x 432 x 597 mm) Dimensions (HxWxD):

40 lbs (18.1 kg)

How to Order

Model T360M	1 includes:		
☐ Two year warra	nty		
☐ Internal pump o (optional)	r external pun	np	
☐ Dual ranges and auto ranging			
☐ 47mm diameter		er	
8 isolated digital			
☐ 6 isolated digital	l inputs		
☐ RS-232 ports			
☐ Ethernet port☐ USB ports for performance	erinheral devic	201	
☐ APIcom TM remo		,00	
☐ Select AC input	voltage		
□ 100V - 120V	□ 50Hz		
□ 220V - 240V	□ 60Hz		
☐ Select DC output	ut voltage		
□ 10V	□ 5V		
□ 1V	□ 0.1V		
Calibration O _I ☐ Ambient zero ar ☐ Ambient zero ar	nd ambient sp		
span			
Mounting Opt			
Rack mount bra slides	ackets with ch	assis	
☐ Rack mount bra	ackets only		
☐ Handle			
I/O Options: 4-20mA output	s (up to three		
channels)			
☐ USB com port			
☐ 8 Analog Inputs			
☐ Multi-drop RS23	32		
□ RS485			
Other Options			
	☐ Paramagnetic O ₂ Sensor		
☐ Concentration alarm relays			

☐ Expendables kit

The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions. Specifications subject to change without notice.

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Weight:



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