



CAL-200

Ozone Transfer Standard

We know how important measuring ground-level ozone accurately can be. With all the features of its CAL-100 stablemate, the Met One Instruments CAL-200 adds features essential for calibration of NO_x and O₃ analysis equipment.

An internal ozone generator enables regular ozone checks and gas phase titrations (GPT).

Features

- All the calibration ability and ease of use found in the Met One Instruments CAL-100
- Ability to premix ozone and source gas before dilution to perform gas phase titrations (GPT).
- Internal ozone generator produces 3 ppm to 5 ppm of ozone

Dilution & Span Flows

Dilution Gas Inputs:	1 standard 100 – 200 kPa (g) (2 optional)
Source Gas Inputs:	4 standard 100 – 200 kPa (g) (8 optional)
Dilution Mass Flow Controller:	10 SLPM, 0 Deg, 1 ATM (std), 1 SLPM, 2 SLPM, 5 SLPM or 20 SLPM (optional), 2nd MFC (optional)
Source Mass Flow Controller:	50 SCCM, 0 Deg, 1 ATM (std), 10 SCCM, 20 SCCM, 100 SCCM, 500 SCCM or 1 SLPM, 2 SLPM (optional), 2nd MFC (optional)
Flow Accuracy (Constant Temp):	Within 1 % of full scale
Flow Repeatability:	Within 0.15 % of full scale
Linearity:	Within 0.15 % of full scale
Operating Gas Pressure:	100 – 200 kPa
Zero Drift:	< 0.6 % per year
Response Time:	< 5 seconds
Output Manifold:	4 output ports standard
Dilution Ratio:	Variable 10:1 to 2000:1 (std configuration)
Case Dimensions	
Rack length:	597 mm (23.5”) (front to rear)
Total length (with latch release):	638 mm (25.1”)
Chassis width:	418 mm (16.5”)
Front panel width:	429 mm (16.9”)
Chassis height:	163 mm / uses 4RU (6.4”)
Front panel height:	175 mm (6.9”)
Weight:	20.5 kg

Communication

User Interface:	Via front panel keypad or computer
Programmable calibrations:	16 separate programmable sequences 32 separate programmable points
Analog Input:	Three analog voltage inputs (0 - 5 VDC) CAT I rated
Digital Output:	RS232 port #1: Normal digital communication RS232 port #2: Multidrop port used for multiple analyser connections on a single RS232 USB port connection on rear panel 25 pin connector with discrete status and user control USB stick memory (front panel) for data logging, event logging and parameter storage 8 Digital Outputs, open collector max 400 mA each at 12 VDC (max total output 2A) 8 Digital Inputs, 0 - 5 VDC CAT I rated 1 Diluent Control, + 12 V output

Power

Operating Voltage:	100 - 240 V VAC 50 / 60 Hz (autoranging)
Power Consumption:	165 VA maximum (typical at start-up) 95 VA after warm-up

Operating Conditions Ambient

Temperature Range:	0 - 45 °C (32 - 104 °F), 20 - 35 °C for optimum performance
Pressure:	Maximum altitude: 3000 m above sea level

Ozone Generator

Output Concentration:

3 ppb to 5000 ppb

Flow Rate:

Variable dependent on Dilution Mass Flow Controller installed

Repeatability:

< 1 % short term (24 hours) 5 % long term at constant temperature and humidity



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