



Serinus® Cal 2000

Ozone transfer standard



Acoem's reputation is built on air quality monitoring, and is based on keeping workforces, communities, businesses and the environment safe.

We know how important measuring ground-level ozone accurately can be. With all the features of its Serinus@Cal1000 stablemate, the Serinus@Cal2000 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 Serinus@Cal 1000
- Internal ozone generator produces 3 ppm to 5 ppm of ozone
- Ability to premix ozone and source gas before dilution to perform gas phase titrations (GPT).

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, 1ATM (std), 1SLPM, 2 SLPM, 5 SLPM or 20 SLPM (optional), 2nd MFC (optional)
Source Mass Flow Controller:	50 SCCM, 0 Deg, 1ATM (std), 10 SCCM, 20 SCCM, 100 SCCM, 500 SCCM or 1SLPM, 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 4 RU (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, + 12V output

POWER

Operating Voltage

- 100- 240 V VAC 50 / 60 Hz (autoranging)

Power Consumption

- 165VA 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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