



# Serinus® Cal 1000

## Ozone transfer standard



The Serinus®Cal1000 performs gas dilution calibrations and is used in conjunction with regulatory traceable gases and a zero air generator.

The most cost effective solution, the Serinus®Cal1000 allows the most up-to-date calibration technology to be available to all.

### FEATURES

- Performs single and multi-point calibrations using the Serinus®Calibrator's precision mass flow controllers, for utmost confidence in the results
- Performs calibration manually through user interface or remotely via RS232, USB networks or digital inputs
- Designed and developed with wide-ranging customer input for easy, intuitive, accurate use.

### DILUTION & SPAN FLOWS

<b>Dilution Gas Inputs:</b>	1 standard 100- 200 kPa (g) (2 optional)
<b>Source Gas Inputs:</b>	4 standard 100- 200 kPa (g) (8 optional)
<b>Dilution Mass Flow Controller:</b>	10 SLPM, 0 Deg, 1ATM (std), 1SLPM, 2 SLPM, 5 SLPM or 20 SLPM (optional), 2nd MFC (optional)
<b>Source Mass Flow Controller:</b>	50 SCCM, 0 Deg, 1ATM (std), 10 SCCM, 20 SCCM, 100 SCCM, 500 SCCM or 1SLPM, 2 SLPM (optional), 2nd MFC (optional)
<b>Flow Accuracy (Constant Temp):</b>	Within 1% of full scale
<b>Flow Repeatability:</b>	Within 0.15% of full scale
<b>Linearity</b>	Within 0.15% of full scale
<b>Operating Gas Pressure:</b>	100- 200 kPa
<b>Zero Drift:</b>	< 0.6 % per year
<b>Response Time:</b>	< 5 seconds
<b>Output Manifold:</b>	4 output ports standard
<b>Dilution Ratio:</b>	Variable 10:1 to 2000:1 (std configuration)
<b>Case Dimensions</b>	
<b>Rack length:</b>	597 mm (23.5") (front to rear)
<b>Total length (with latch release):</b>	638 mm (25.1")
<b>Chassis width:</b>	418 mm (16.5")
<b>Front panel width:</b>	429 mm (16.9")
<b>Chassis height:</b>	163 mm / uses 4 RU (6.4")
<b>Front panel height:</b>	175 mm (6.9")
<b>Weight:</b>	18.2 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


 Official Distributor

#### XEARPRO

Via delle Primule, 16  
Cogliate (MB) - 20815, Italia

 [info@xearpro.com](mailto:info@xearpro.com)

 +39 02 9646.0317

 [xearpro.it](http://xearpro.it)



1492 Ferntree Gully Road Knoxfield VIC 3180 Melbourne Australia  
+613 9730 7800 [email@acoem.com](mailto:email@acoem.com) [acoem.com](http://acoem.com)

