Ecotech
ACOEM Group

Serinus® Cal 1000

OZONE TRANSFER STANDARD

The Serinus® Cal 1000 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® Cal 1000 allows the most up-to-date calibrations 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

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:	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, + 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

bsi. ISO 9001 Quality Management FS 603790 AS/NZS 4801 Occupational Health and Safety Management OHS 603791

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