



# CAL-100

## Ozone Transfer Standard

The Met One Instruments CAL-100 performs gas dilution calibrations and is used in conjunction with regulatory traceable gases and a zero air generator.

The most cost effective solution, the CAL-100 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

<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, 1 ATM (std), 1 SLPM, 2 SLPM, 5 SLPM or 20 SLPM (optional), 2nd MFC (optional)
<b>Source Mass Flow Controller:</b>	50 SCCM, 0 Deg, 1 ATM (std), 10 SCCM, 20 SCCM, 100 SCCM, 500 SCCM or 1 SLPM, 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 4RU (6.4”)
<b>Front panel height:</b>	175 mm (6.9”)
<b>Weight:</b>	18.2 kg

## Communication

<b>User Interface:</b>	Via front panel keypad or computer
<b>Programmable calibrations:</b>	16 separate programmable sequences 32 separate programmable points
<b>Analog Input:</b>	Three analog voltage inputs (0 - 5 VDC) CAT I rated
<b>Digital Output:</b>	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

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

### Operating Conditions Ambient

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



POWERED BY ACOEM

Specifications subject to change without notice. Images used are for illustrative purposes only. All trademarks and registered trademarks are the property of their respective owners.

© 2022 Acoem and all related entities. All rights reserved. 20220711

**metone.com**

---