

AIRCAL 1000

Air quality instrumentation requires regular calibration and service for optimum performance. Aeroqual's AirCal 1000 is a portable calibrator which generates zero and multipoint span test mixtures for the calibration of air quality monitoring equipment, including the Aeroqual AQM60 environmental station.

The AirCal 1000 system comprises of a gas dilution module and internal zero air generator. It is supplied with software and a durable carry case for portability.

Features

- Automatic and manual zero checks
- Automatic and manual span checks
- NIST traceable mass flow meter and controller
- Automatic logging of time, flow rates and port status during operation using PC software
- Integrated Zero Air Generator
- Two span gas inlets
- Lightweight and portable
- Easy replacement of zero air scrubbers



Specifications

Gas connections *	2 x inlet span ports – 1/8" Swagelok compression fitting Outlet – 1/4" Swagelok compression fitting * Regulators are not supplied – consult calibration gas supplier
Power supply module	100-240V AC to 12V DC switching adaptor
Display	4-line Alphanumeric
Communication output	RS232 (DB9 port)
Dimensions and weight	422 x 422 x 148 mm; 12 kg
Enclosure material	Aluminium and steel powder coating
Instrument carry case	Impact and water resistant; 515 x 430 x 200 mm

Internal Zero Air Source

Pump	BLDC 12VDC diaphragm pump (includes manual pump override switch)
Flow	2.0-2.5 LPM
Scrubbing media	Purafil chemisorbant ,activated carbon, heated carulite catalyst
Ambient gases scrubbed	NO ₂ , NO, SO ₂ , CO, H ₂ S, O ₃ , hydrocarbons

Gas Dilution Module

Span gas inputs	2
Span gas MFC range	0-50 sccm
Zero air MFM range	0-3 SLPM
Flow accuracy	< 1% of full scale
Maximum delivered flow rate	2.0-2.5 LPM
Span gas operating pressure	10-15 psi
Maximum input pressure	140 psi
Operating Temperature range	5 °C – 45 °C