

tetraCal® NIST Traceable Volumetric Air Flow Calibrator

The Mesa tetraCal® is a simple-to-use, NIST Traceable Standard for volumetric air flow, barometric pressure, and ambient temperature. The tetraCal® system is designed to tolerate a wide range of adverse field conditions including hot and cold temperatures as well as high relative humidity.

The tetraCal® is a venturi based system with built-in compensation for changes in ambient temperature and pressure. Three Venturi are available to cover a total flow range from 0.1 to 30 LPM.

All tetraCal® systems are built and tested at Mesa headquarters which is both a NIST traceable Calibration Laboratory and an ISO 9001:2008 facility.



Features

- Simple ON/OFF operation -- all data displayed on screen automatically
- Venturi-based calibrator
- Portable
- 20 hour battery life (4-AA)
- Furnished with universal power supply (120/240 VAC)
- Download feature with supplied software

tetraCal Specifications

Flow Rate Range:	0.1-30 LPM (actual volumetric reading) 1-60 LPM (actual volumetric reading)
Temp Operational Range:	-30° C to 55° C
Temp Reading Range:	-40° C to 50° C
Baro. Pressure Range:	400 to 800 mm of Hg (U.S. version) 534 to 1066 milibars (Euro version)
Dimensions of Control Module:	3.25 in. high (8.25 cm) X 3.125 in. wide (7.94 cm) X 9 in. long (22.86 cm) Height with venturi and hose adaptor 6.30 in (16.00cm)
Weight with Venturi:	2.38 lbs (1.08 kg)
Dimensions of Carrying Case:	15.75 in. wide (40.00 cm) X 4.5 in. high (11.43 cm) X 12.25 in. thick (31.20 cm)
Weight Complete with Contents:	4.69 lbs (2.13 kg)

Applications

- Calibration of environmental and industrial hygiene air-sampling instruments
- Calibration and audits of speciation and particulate samplers to U.S. EPA requirements
- May be used on any sampler in the 0.1 to 30 LPM and 1 to 60 LPM range
- Usable in field or laboratory
- Suitable for calibration of cascade impactors

tetraCal Ordering Information

Part # TC5:	tetraCal®, complete in fitted case (0.1-30 LPM)
Part # TC12:	tetraCal®/EPA speciation audit model with temperature probe (0.1-30 LPM)
Part # TC17:	tetraCal-Ultra/EPA speciation audit model with temp probe (1-60 LPM)
Part # TC14:	tetraCal-Ultra, complete in fitted case (1-60 LPM)
Part # TCIMP:	tetraCal® adapters (3) for use with the Improve Sampler
Part # /400-129:	ReCert of tetraCal
Part # /400-137:	PreCal/Recert of tetraCal

All calibrations include NIST Traceable certificate