

tetraCal® Volumetric Air Flow Calibrator

The BGI tetraCal® is a simple-to-use, NIST Traceable Standard for volumetric air flow, barometric pressure, and ambient temperature.

The tetraCal® is a venturi based system with built-in compensation for changes in ambient temperature and pressure. Three Venturis 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)
- Supplied software with download and reporting capability
- 0.75% accuracy per reading

tetraCal Specifications

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|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 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) |
| Accuracy: | 0.75% of reading |

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
- Suitable for calibration of cascade impactors

tetraCal Ordering Information

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|-------------------------|--------------------------------------------------------------------------|
| 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 |
| Part # TC9: | tetraCal O-ring kit |

All calibrations include NIST Traceable certificate