



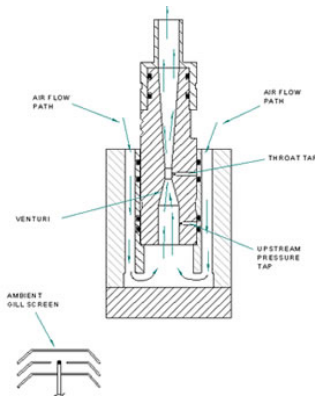
BGI

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tetraCal® -Ultra NIST Traceable Volumetric Air Flow Calibrator

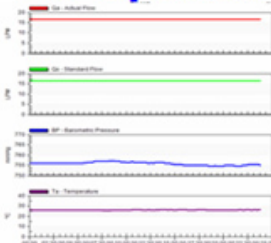


tetraCal Ultra in Hard case



Sectional View of Measuring Section

BGIOpenCal



The BGI tetraCal® Ultra is a variation of the tetraCal®. It is named "ULTRA" because it meets the needs of so many more users Worldwide. There are few, if any modern environmental air samplers who's calibration needs are not serviced by the Ultra.

It is a simple-to-use, NIST Traceable Standard for volumetric air flow, barometric pressure, and ambient temperature. The tetraCal®-Ultra system is designed to tolerate a wide range of adverse field conditions including hot and cold temperatures as well as high relative humidity. The field portable tetraCal®-Ultra is the perfect solution for calibrating environmental and industrial hygiene air sampling instruments.

To use the tetraCal®-Ultra, simply connect the tetraCal®-Ultra and the sampling instrument with tubing and media, inline and turn them both ON. The tetraCal®-Ultra immediately begins providing the flow rate and ambient condition data on the screen. There are no bubbles, sticking pistons or insurgent pressure spikes to worry about.

The tetraCal®-Ultra is a venturi based system with built-in compensation for changes in ambient temperature and pressure. The system is designed to be invisible to the instrument being calibrated, with no moving parts. Three Ventura are available to cover a total flow range from 1.0 to 60 Lpm.

The tetraCal®-Ultra is the only field calibration device which meets the same temperature criteria as EPA designated samplers. This is a dynamic temperature range from -30° to 55° C and each kit includes software, that allows for data storage and reporting. All tetraCal®-Ultra systems are built and tested at BGI headquarters which is both a NIST traceable Calibration Laboratory and an ISO 9001:2008 facility.

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Applications

- Calibration and audits of speciation samplers to U.S. EPA requirements
- May be used on any sampler in the 1 to 60 Lpm range
- Usable in field or laboratory
- Suitable for calibration of cascade impactors

Features

- Simple ON/OFF operation -- all data displayed on screen automatically
- No moving parts
- 20 hour battery life (4-AA)
- Furnished with universal power supply (120/240 VAC)
- Download feature with supplied software

Specifications

Flow Rate Range	0.1-30 LPM (actual volumetric reading)
Temp. operational range	-30° C to 40° C
Temp. reading range	-40° C to 50° C
Baro. pressure range	400 to 800 mm of Hg (U.S. version) 534 to 1066 millibars (Euro version)
Dimensions	
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)
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 w/contents	4.69 lbs (2.13 kg)

Ordering Information

Part#	Description
TC14	tetraCal [®] -Ultra, complete in fitted case, std. cond. Temp. at 25° C
TC17	tetraCal [®] -Ultra/EPA speciation audit model with temperature probe, std. cond. Temp. at 25° C
TCIMP	tetraCal [®] -Ultra adapters (3) for use with the Improve Sampler
Recalibration	
TC11	Recalibration with NIST Traceability Certificate

