



## Tri Cal Flow, Pressure & Temperature Field Calibration Device



### Applications:

Calibration and Audits of PM<sub>2.5</sub> and PM<sub>10</sub> Samplers to U.S. EPA Requirements  
Works for Any Sampler Operating at 0.1 to 30 lpm  
Suitable for Field and Laboratory Use

### Features:

User Friendly Operation with On Screen Display  
No Moving Parts  
20 Hour Battery Life (4 AA Batteries Required)  
Includes Universal Power Supply (120/240 VAC)  
Download Feature with Supplied Software  
Includes Carrying Case and Adapters

The BGI Tri Cal is the only audit device that provides a direct indication of volumetric flow rate, barometric pressure and ambient temperature in one instrument. It was developed for use with all types of samplers operating in the 0.1 to 30 lpm range.

The Tri Cal provides volumetric flow information by measuring the pressure drop caused by air traveling through a venturi. As the flow rate through the venturi increases, the pressure drop increases. A desirable feature of the venturi is that most of the pressure drop created by the instrument is recovered in the expansion section of the venturi. Therefore, measurements are made at nearly the true operating conditions of the sampler.

The Tri Cal is the only field audit device that meets the same temperature criteria as the EPA designated samplers, which must operate between -30 and 40 °C.

An optional filter temperature probe is available for use with PM<sub>2.5</sub> FRM and speciation sampling systems.

All functions of the Tri Cal are NIST traceable and the device is manufactured in to ISO 9001 standards.



### Specifications:

Flow Range:	0.1-30 lpm
Temperature Range:	-30 to 40 °C
Pressure Range:	400 to 800 mm of Hg
Dimensions:	6.3" (H) x 3.125" (W) x 9" (L) - Unit with Venturi
Weight:	4.7 lbs (Case with Contents)