



Delta Cal Flow, Pressure & Temperature Field Calibration Device



Applications:

Calibration and Audits of PM_{2.5} and PM₁₀ Samplers to U.S. EPA Requirements
Works for Any Sampler Operating at 2 to 20 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 Delta Cal is the only audit device that provides a direct indication of volumetric flow rate, barometric pressure, ambient temperature and filter temperature in one instrument. It was developed for use with U.S. EPA PM_{2.5} designated samplers and PM₁₀ derivatives. Adapters make the device suitable with any air sampler operating in the 2 to 20 lpm range.

The Delta 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 Delta 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.

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



Specifications:

Flow Range:	2-20 lpm
Temperature Range:	-30 to 40 C
Pressure Range:	400 to 800 mm of Hg
Dimensions:	8" x 4" x 1.7" (Control Module) 5" OD x 10" (Measuring Head) 18" x 13" x 7" (Carrying Case)
Weight:	5.5 lbs (Case with Contents)