BGI deltaCal

deltaCal Volumetric Air Flow Calibrator

Designed to go anyplace, indoors or out. From the top a 15,000 ft mountain to a 55° C desert or a -30° C snow field, the NIST traceable deltaCal is pulsation free, accurate to less than 0.75% of the flow rate reading.

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



Features

- Venturi-based calibrator
- Fully NIST-traceable
- 0.75% accuracy per reading
- One switch (off/on) operation -- all data displayed on screen
- No moving parts, completely silent

- · 20 hour battery life (requires 4 AA batteries)
- Furnished with universal power supply (120/240 VAC)
- Supplied software with download and reporting capability
- Displays actual and standard flow rates

deltaCal Specifications

2 – 19.5 LPM - DC1

Flow Rate Range (3 Models): 10 – 60 LPM - DC100

0.8 -- 3.5 LPM - DC200

Temp Operational Range: -30° C to 55° C (EPA requires upt to 40° C

Temp Reading Range: -40° C to 55° C

Baro. Pressure Range: 400 to 800 mm of Hg (U.S. version) 534 to 1066 milibars (Euro version)

Dimensions of Measuring Head: 5 in. Max OD (12.7 cm) X 10 in. high (25.4 cm)

Dimensions of Control Module: 8 in. high (20.3 cm) X 4 in. wide (10.15 cm) X 1.7 in. thick

(4.32 cm)

Combined Weight: 2.2 lbs (1 kg)



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deltaCal - Air Flow Calibrator

Applications

- Calibration and audits of PM_{2.5} and PM₁₀ samplers in accordance with U.S. EPA requirements
- May be used on any sampler in the 2 to 19.5 LPM, 10-60 LPM, 0.8-3.5 LPM range
- Calibration of European PM₁₀ samplers operating at 38.4 LPM using the DC100
- Calibration of 50 LPM DICOT samplers and standard DICOT Samplers

deltaCal Ordering Information

Part # DC1: deltaCal (calibration range 2-19.5 LPM), complete in carrying case

Part # DC100: deltaCal (calibration range 10-60 LPM)

Part # DC200: deltaCal (calibration range 0.8-3.5 LPM), complete in carrying case

Part # 188125: Adapter - deltaCal to 3/8 in. hose barb (use with SASS or TEOM)

Part # DC11: Adapter - deltaCal to 1/2" Hose Barb

Part # DC2: Extension Temperature Probe

Part # DC3: 120-240 Volt Power Supply

Part # CA9030: Fitted Hard Carrying Case

 Part # 188166:
 deltaCal O-ring Kit

 Part # /400-128:
 ReCert of deltaCal

Part # /400-136: Pre-Cal/ReCert of deltaCal

All calibrations include NIST Traceable certificate



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BGI tetraCal

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

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)

3.25 in. high (8.25 cm) X 3.125 in. wide (7.94 cm) X 9 in.

Dimensions of Control Module: 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



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Air Flow Calibrator

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

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



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