

BGI Challenger®

Occupational Safety Calibrator for Air Samplers

Challenger is a NIST traceable handheld calibrator for verifying and calibrating industrial hygiene air sampling instruments.

The heart of Mesa's electronic calibrators is the Venturi, which is made from aluminum, has no sharp edges and no moving parts. It offers a 90% recovery of pressure drop that is critical when performing a calibration. The Venturi can be cleaned with a simple soap and water rinse.

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



Challenger®

Applications

- Occupational Health & Safety
- Industrial Hygiene
- Ideal for Personal Samplers
- Calibration of Cascade Impactors and Cyclones

Specifications

- Portable NIST Traceable Device
- Invisible to Host Device
- Accuracy to <0.75% of Reading
- 20 Hour Battery Life
- Includes Data Software & RS232 port
- No Moving Parts & No Liquids
- Displays Actual Volumetric & Standard Flow Rate
- Displays of Ambient Temp. & Barometric Pressure
- Auto Ranging

Challenger Ordering Information

Part # CH100:	The Challenger®, complete with 2 venturis and carrying case, std. cond. temp at 25° C
Part # CH101:	“O” Ring Kit
Part # CH10079:	Challenger Carrying Case
Part # 3047:	Venturi #2 - Flow Range 1 to 6 LPM
Part # M-3048:	Venturi #1 - Flow Range 6 to 30 LPM
Part # /400-127:	ReCert of Challenger
Part # /400-135:	PreCal/ReCert of Challenger

All calibrations include NIST Traceable certificate

Challenger Specifications

Flow Rate Range:	1-30 Lpm ($\pm 0.75\%$ or less) - Model CH100 30-450 ccm ($\pm 1\%$) - Model CH050
Temp. Operational Range:	-30° C to 55° C
Temp. Reading Range:	-30° C to 55° C (+ .5° C)
Barometric Pressure Range:	400 to 800 mm of Hg (± 5 mm) 533 to 1067 mb
Dimensions:	1.59 in high (4.04 cm) x 3.90 in wide (9.91 cm) x 7.70 in long (19.61 cm)
Weight:	7.4 oz (209 g)