



**BGI**  
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## Occupational Safety Calibrator for Air Samplers



BGI has designed the best all around calibrator for verifying and calibrating the properties of Industrial Hygiene Air Sampling Instruments. The Challenger® is unsurpassed, when it comes to Economy and features. Our readout is in both Actual flow rate and Standard flow rate. Highly accurate Temperature and Barometric Pressure are also provided. No one matches our Temperature range (-30° to +55° C). We have been in the calibrator business since 1974.

The Challenger®, like all BGI Calibrators come standard with online Software and an online Instruction manual (then select #10) One model does it all!

The heart of all BGI electronic Calibrators is the Venturi. It is made from aluminum, has no sharp edges and no moving parts. It offers a 90% recovery of pressure drop which is so important when performing a calibration. Good practice demands that the calibration conditions be as close to operating conditions as possible. Cleaning the Venturi is a simple washing procedure.

Because flow through the instrument is uninterrupted our graphic software provides a continuous output display of all functions. This continuous output makes it very simple to configure The Challenger® output to communicate with a sampler. Our own samplers, based on the Omni O/S, will perform this function allowing a "one button" update of Flow rate, Barometric pressure and temperature, completely eliminating the tedium of calibration.



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**FEATURES**

**APPLICATIONS**

Model CH100 Range 1.0 – 30 LPM Model Ch050 Range 30 – 450 ccm	Hand Held Occupational Health & Safety
Portable NIST Traceable Device	Industrial Hygiene
Invisible to Host Device	Ideal for Personal Samplers
Accuracy to <0.75% of Reading	Calibration of Cascade Impactors and Cyclones
20 Hour Battery Operated	
Includes Data Software & RS232 port	
No Moving Parts & No Liquids	
Ventura Can be Cleaned by Operator	
Actual Volumetric & Standard Flow Rate Displayed Simultaneously	
Display of Ambient Temp. & Barometric Pressure	
Widest Temp. Range in the Calibrator Market (-30° C to 55° C)	
Auto Ranging	

**Ordering Information**

<b>Part#</b>	<b>Description</b>
CH100	The Challenger® (1.0 to 30 lpm), complete with 2 ventura and carrying case
CH050	The Challenger® (30 to 450 lpm), complete with single flow tube and carrying case
CH101	"O" Ring Kit
CH102	Fabric Carrying Pouch
3047	Venturi #2 Flow Range 1.0 to 6.0 LPM
3048	Venturi #1 Flow Range 6.0 to 30 LPM