

# THE BLAST GAUGE<sup>TM</sup> SYSTEM

CAPTURES CRITICAL DATA FOR OPERATIONS,  
TRAINING, AND RESEARCH

## KEY FEATURES

### **Triage Capable**

Lights activated via recessed button

### **Repetitive Exposures**

Data transferred to PC for detailed event analysis and history tracking

### **Traceable**

Privacy protected

### **Data Capture**

Full signature or summary data options

### **Durable**

Fully encapsulated design withstands weather and impact

### **Automated**

Blast overpressure and acceleration automatically collected and classified

### **Reprogrammable**

Load latest algorithms at time of activation

### **Reusable**

Reassignable and erasable after data download

### **Cost Effective**

Quickly outfit operators and environments

### **Small**

Less than one cubic inch  
Less than one ounce

### **Environment Mapping**

Quantify blast propagation in complex environments

### **Flexible**

Instantly mounts to helmet, gear, vehicles, and structures

**Traumatic Brain Injury** has been recognized as the signature injury of modern day conflicts, yet the impact of repetitive exposures remains unknown. The Blast Gauge System provides an immediate solution to capture repetitive exposure to blast events providing insight into training tactics and operator performance.

**Small & Lightweight**, the Blast Gauge has been designed for robust performance in the most extreme environmental conditions. The unique flexible mounting design permits tool-free attachment to any helmet strap, PALS webbing, robot, or physical structure without interference.

**Date and Time Stamped** events are stored for later download via USB for off-line analysis.

**User Configurable** to match application. User can reassign and erase device after data download, select thresholds and power management settings, and choose to capture summary statistics or full waveforms.

**Accurate Measurement** of overpressure waveforms, pressure impulse, and acceleration. Multiple units can be worn by each operator and placed in the environment to recreate a complete picture of blast exposure.

**Tracking Cumulative Exposure** for correlation to long-term effects via integrated database.

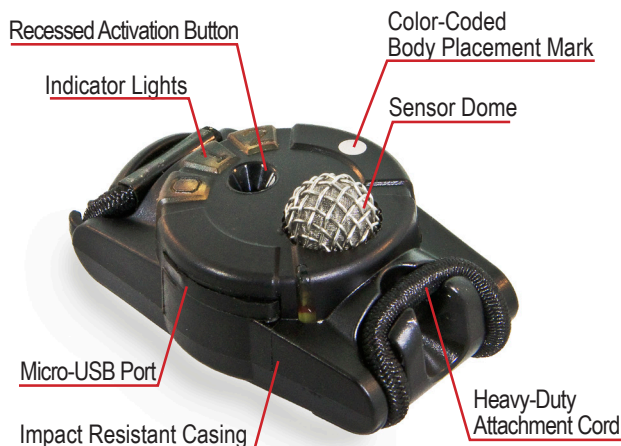
**Multipurpose** tool for use in Breaching, EOD, Special Ops, SWAT, Bomb Squad, and Hostage Rescue Training.



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TRAINING AND RESEARCH

## PERFORMANCE SPECIFICATIONS



### FEATURES

- Size: < one cubic inch, < one ounce
- Records accurate acceleration with blast overpressure data
- Blast, dust, and water resistant
- Time and date stamp for events
- Triage lights: color-based severity display via button press
- Operator or device unique identifier loaded into gauge
- Auto battery save mode, sleep mode, hibernate and rehibernate options
- Reusable - erase data, reassign devices, and turn devices off between uses
- Data storage for 10 full waveform events or hundreds of event summaries
- Downloadable free software for activation, data recovery and visualization

Blast Gauge Model	S1	S2	H1
Sensitivity	Standard	Standard	High
Overpressure Range	2.5 to 100 psi	2.5 to 100 psi	0.25 to 30 psi
Pressure Resolution	0.2 psi	0.2 psi	0.05 psi
Accelerometer	± 16g	± 200g	± 16g



Usage profiles used to calculate average days of use

\* 3 hrs range time per month; event response 6 hrs, 1 per 2 months; auto battery save mode; 25°C

\*\* 24 hrs range time per month; event response 8 hrs, 1 per 2 months; auto battery save mode; 25°C

\*\*\* 8 hrs use per day; 3 days per month; sleep mode disabled; OFF between uses; 25°C

### ACCESSORIES

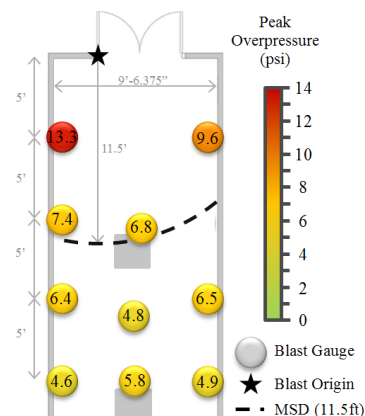
- BGK3 - Integrated CAC and Hub
- BGK6 - Discrete CAC and Hub
- BGK7 - Hub Kit



## MULTIPURPOSE



Robot



Environment Mapping

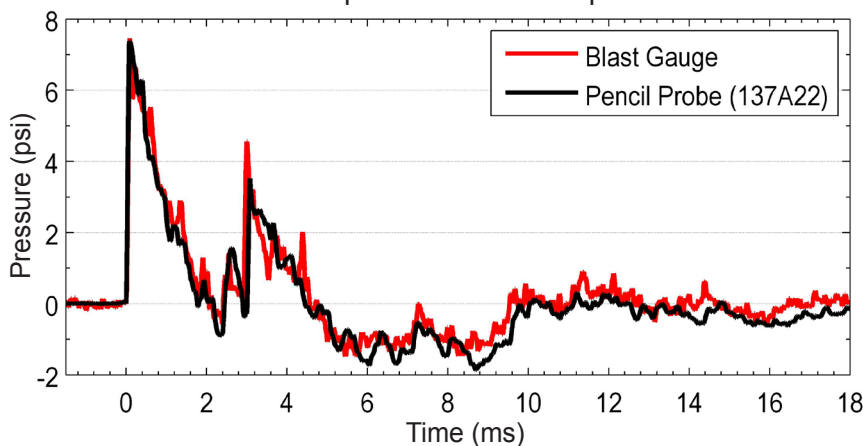


Tactical Entry



Explosive Breaching

### Accurate Capture of Blast Overpressure



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