Gauge Buster 2

Next Generation Load, Stress and Load Rate Indicator for tension and compression testing to ASTM requirements!

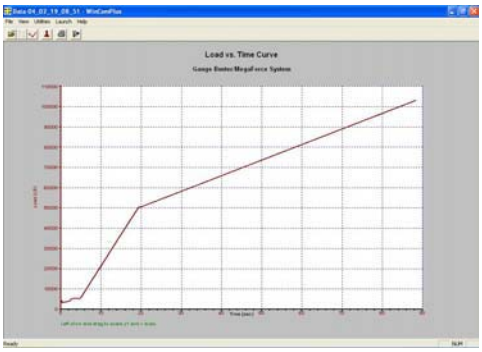
Gauge Buster 2 is a low cost versatile indicator designed for a variety of materials, product, remote on-site and force calibration testing applications. Features include an Auto-Test-Reset mode for hands free operation, bar graph load rate display, permanent storage of test data and easy transfer of results into data base programs. It's accuracy, which exceeds ASTM E4, ease-of-use and ruggedness results in a system of unrivaled price/performance.

Gauge Buster 2 is ideal for:

- Tension/Compression Testing
- Beam Testing
- Concrete Cylinder Testing
- Cement Cube Testing
- Force Calibration
- Remote On-Site Testing
- Quality Control
- Product Evaluation
- Proof Testing
- Pre-Stressing Jacks

Gauge Buster 2 features

- Display Live Load, Maximum Load, Live Stress and Maximum Stress numerically.
- Indicate Load/Stress Rate numerically or with a bar graph. The bar graph rate pointer moves between limits. Decreasing the rate moves the pointer left. Increasing the rate moves the pointer right. Adjust the upper and lower rate limits depending on the testing requirements. Ex: ASTM C39 28-42 psi/sec.
- Activate average load rate analysis to calculate and report actual test speeds.
- Select between force units of Lb, N, KN, Kg and stress units of psi, MPa, KPa, ksc.
- Define specimen geometries as cylinder, cube, beam center point loading, beam-3rd point loading, round and general area.
- Activate/De-Activate Cylinder ASTM C39 correction factor.
- Define cylinder break type according to ASTM C39.
- Perform beam tests according to ASTM C78 and C293.
- Store up to 2,000 test results to permanent memory. Results include Date, Time, Specimen ID#, Maximum Load, Maximum Stress, Average Load Rate plus a statistical summary of each.
- Store up to 6 test methods to permanent memory. Test methods enable the user to define and store cylinder, beam and cube test procedures to memory. With the press of a key they can be quickly recalled for fast efficient testing.
- Activate Auto-Store to automatically store the results of each test.
- Auto-Test-Reset is standard and automatically enables the indicator for the start of the next test without requiring operator interaction.
- Define and detect the end of test with the Sample Break Detector.
- Digital output activates at sample break or machine overload.
- Connect an HP compatible USB printer to generate Single Test Report which includes an XY curve, Test Reports that include tabulated results from multiple tests, Test Methods and Calibration Data.
- Transmit via the USB communications port results, XY data, test methods and calibration data to a remote computer running ADMET's GageSafe ™ Data Exchange Program. See reverse side for more details.
- Store up to 6 load cell calibrations for multiple load cell systems. The load calibration algorithm allows up to 10 calibration points per cell with piecewise linear fit between points. Accuracy exceeds ASTM E4 Standards and in general is better than 0.5% from 1% of full scale to full scale.
- Gauge Buster 2 comes standard with one analog input for measuring force and stress. Optional digital encoder and analog inputs can be installed to measure displacement or strain. Ideal for measuring modulus or poisson's ratio according to ASTM C469.
- With the servo control option Gauge Buster 2 can be used with ADMET's MegaForce Automatic Loading System to ensure that all tests are performed according to ASTM standards. The user specifies the loading rates to achieve precise closed loop control.



Force vs. Time curve demonstrates the ability to verify testing rates and shows the precise, repeatable force control achieved with a Gauge Buster 2/MegaForce based system.

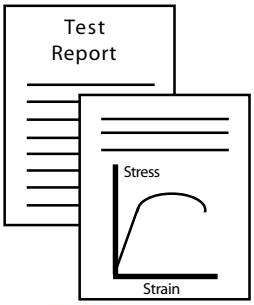
Gauge Buster 2 Reporting Capabilities

GageSafe ™ Data Exchange Program

GageSafe is a PC-based program for exchanging data with the Gauge Buster 2. It is a Windows XP/Vista/7 compatible program that is capable of viewing, printing and storing test results uploaded via the USB communications port or read from a USB flash drive. The Gauge Buster 2 can also upload via the USB communications port or write to a USB flash drive Test Methods and Calibration Data. Gage Safe can read, create, edit and store Test Methods and Calibration Data. The Test Methods and Calibration Data can then be uploaded bac k into the Gauge Buster 2 via the USB Communications Port or USB flash drive. Gauge Buster 2 has six Test Methods permanently stored in m emory. The user can use the six Test Methods to define procedures for testing cylinders, cubes and beams. With the press of a single key, they can quickly switch between methods for fast efficient testing. GageSafe is sold separately.

Connect a USB flash (thumb) drive to the Gauge Buster 2 and write Test Results, XY Data, Test Methods and Calibration Data to its memory. Connect the USB flash drive to the computer running GageSafe and view/ print/edit the stored data. Plug the USB flash drive back into the Gauge Buster 2 and load the data stored on the flash drive back into the Gauge Buster 2 (USB flash drive sold separately).

Connect an HP compatible USB printer to the Gauge Buster 2 and print a Single Test Report which includes an XY curve, Test Reports that include tabulated results from multiple tests, Test Methods and Calibration Data (printer sold separately).



USB Printer/Flash Drive Port (option)

USB Host PC Port (standard)

Group Test Report - Upload test results stored in Gauge Buster 2 into GageSafe. View/Print in tabular form. Export into common spreadsheet and database programs.

Single Test Report - Upload XY data from the last test into GageSafe. View/print force-time or stress-time curves. Export XY data to common spreadsheet programs for further analysis.

Multi-plot - View/print up to ten curves on the same set of graph axes.

Test Methods - Create/edit test methods in GageSafe. Upload test methods from Gauge Buster 2 into GageSafe for viewing or editing. Download test methods from GageSafe into Gauge Buster 2.

Calibration Table s - Create/ edit calibration tables in GageSafe. Upload calibration data from Gauge Buster 2 into GageSafe for viewing or editing. Download calibration tables from GageSafe into Gauge Buster 2.

Live XY Plots - View force-time, stress-time curves real-time.

Input Channels

- Analog Force (standard)
- Analog Axial Strain (option)
- Digital Position or Transverse Strain (option)

Active Test Method

M3 136745 LB

L-------■---------H

Live Load

Test Rate

2 line x 16 character LCD with 3/8" H characters

Test Method	ID#	7	8	9	ESC Stop
Setup	Utils	4	5	6	↑ Jog Up
Report Opt	Store	1	2	3	↓ Jog Dn
Control	Print	(-) Disk	0 Zero	(.) Freeze	ENT Start

24 key tactile keypad

Gauge Buster 2

Outputs

- 5V Output Activated on Sample Break or Over Range (standard)
- Servo Control for Automatic Testing Systems (option)

Load Input Compatibility

Sensitivity:	User selectable from 1mv/v to +/- 2.5Vdc
Excitation:	10 Vdc
Accuracy:	Gauge Buster 2 plus Transducer-Better than 0.5% from 1% of full scale to full scale (Exceeds ASTM E4).
Resolution:	1 part in 8 million (approx.)
Sampling Rate:	1000 Hz
Display:	2 line x 16 character x 0.4" h alphanumeric LCD
Power Requirements:	100-240 VAC 50-60 Hz Battery powered units use eight AA batteries

Size: 9.31"wx8.56"Hx3"DP

Accessories/Options

- Battery powered portable case
- Digital position or analog strain inputs
- Servo control output for MegaForce
- GageSafe Data Exchange Software
- Fixed and swivel mounting brackets
- Concrete Traker Database Program
- Shunt Calibration
- Pressure Transducers: 1,000-2,500-5,000-10,000 psi