GaugeBuster 2 Digital Indicator & Controller

Advanced, Versatile, and Accurate.

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

GaugeBuster 2 is a versatile digital indicator and controller for determining the mechanical properties of materials. The Gauge-Buster 2 is also well suited for product, portable 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.

Simply connect the GaugeBuster 2 with a load cell or pressure transducer to a testing machine and measure the strength of materails in tension, compression, or bend.

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. 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 Reports which

include an XY curve, Group Test Reports that include tabulated results from multiple tests, Test Methods and Calibration Data (option).

- Transmit via the USB communications port (standard) or USB flash drive (option) results, XY data, test methods and calibration data to a remote computer running ADMET's GaugeSafe Data Exchange Program.
- Store up to 6 load cell calibrations for multiple load cell systems.

ADWET

- The load calibration algorithm allows up to 10 calibration points per cell with piece wise 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.
- GaugeBuster 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, GaugeBuster 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.





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System Specifications

	Load Input Compatibility					cessor	ies			
Accuracy from % of full scale to full scale (Exceeds ASTM E4) from % of full scale to full scale (Exceeds ASTM E4) for % of % of full scale to full scale (Exceeds ASTM E4) for % of %	Sensitivity	User selectable from 1mv/v to +/- 2.5Vdc			Port	ability Battery powered portable case				
Active Test Mathematical Strain (option) Power Strain Analog Force (standard) Poligial Position or Transverse Strain (option) Poligial Position or Transverse Strain (option) Power Strain Power Strain	Excitation	10 Vdc			Inpu	uts		Digital position or analog strain inputs		
Resolution 1 part in 8 million (approx.) Sampling Rate Up to 1000 Hz Display Brackets Fixed and swivel mounting brackets Calibration Type 2 line x 16 character x 0.4" h alphanumeric LCD Power Requirements Voltage 100-240 VAC 50-60 Hz Battery Battery powered units use eight AA batteries Size USB Printer or Flash USB Printer or Flash USB Host PC Port (standard) Input Channels Active Test Analog Force (standard) Analog Axial Strain (option) Digital Position or Transverse Strain (option) Test Digital Position or Transverse Strain (option) Setup Utis 4 Setup Utis 4 5 Viste Strain (option) Setup Utis 4 Setup Utis 4 5 Setup Utis 4 5 Setup Utis 4 5 Starder Strain (option) Setup Utis 4 Setup Utis 4 5 Starder Strain (option) Set resets Starder Strain (option) Set resets	Accuracy Gauge Buster 2 plus Transducer-Better than 0.5% from 1% of full scale to full scale (Exceeds ASTM E4)				Con	Control Servo control output for MegaForce				
Sampling Rate Up to 1000 Hz Brackets Fixed and swivel mounting brackets Display Ine x 16 character x 0.4° h alphanumeric LCD Pressure Pressure Transducers: 1,000-3,000-5,000-10,000 psi Yotage 100-240 VAC 50-60 Hz Pressure Transducers: 1,000-3,000-5,000-10,000 psi Battery Battery powered units use eight AA batteries Pressure Transducers: 1,000-3,000-5,000-10,000 psi Size Use Solution Use Solution Pressure Transducers: 1,000-3,000-5,000-10,000 psi Unput Channels USB Printer or Flash Drive Port (option) USB Host PC Port (standard) USB Host PC Port (standard) Use Load Test Rate Analog Force (standard) 2 line x 16 character LCD with 3/8° H characters Live Load Test Rate Soup Use Activati- ed on Sample Break or Over Range (standard) • SV Output Activati- ed on Sample Break or Over Range (standard) • Digital Position or Transverse Strain (option) Presser Strain (option) 12 000 psi Testing Systems (option) • Strates Strain (option)										
Display Calibration Shunt Calibration Type 2 line x 16 character x 0.4" h alphanumeric LCD Pressure Pressure Transducers: 1.000-3.000-5.000-10.000 psi Power Requirements Voltage 100-240 VAC 50-60 Hz Battery Battery powered units use eight AA batteries Size Dimensions 9.31"Wx8.56"Hx3"DP Imput Channels Imput Channels Voltage Size USB Printer or Flash Drive Port (option) USB Host PC Port (standard) Use Load Input Channels Active Test Mathed Imput Channels Imput Channels Analog Force (standard) 2 line x 16 character LCD with 3/8" H characters Imput Test Rate Store Test Rate Digital Position or Transverse Strain (option) Report Store 1 2 3 yog pan (standard) Servo Control for Automatic Testing Systems (option) Digital Position or Transverse Strain (option) 24 key tactile keypad Test Rate Sistem Servo Control for Automatic Testing Systems (option)	Sampling Rate Up to 1000 Hz									
Type 2 line x 16 character x 0.4" h alphanumeric LCD Power Requirements Voltage 100-240 VAC 50-60 Hz Battery Battery powered units use eight AA batteries Size Dimensions 9.31 Wx8.56"Hx3"DP USB Printer or Flash Drive Port (option) USB Printer or Flash Drive Port (option) USB Host PC Port (standard) Analog Axial Strain (option) Digital Position or Transverse Strain (option) Digital Position or Digital Position or Digita										
Power Requirements Voltage 100-240 VAC 50-60 Hz Battery Battery powered units use eight AA batteries Size Dimensions 9.31*Wx8.56*Hx3*DP USB Printer or Flash Drive Port (option) USB Host PC Port (standard) Imput Channels Analog Force (standard) Active Test Method M3 136745 LB Live Load Live Load Test Rate 1 Input Channels Active Test Method Imput 1 Channels Imput 1 Channels Imput 2 line x 16 character LCD with 3/8" H characters 0 utputs • Analog Force (standard) Imput 1 Channels Imput 2 line x 16 character LCD with 3/8" H characters • SV Output Activat- ed on Sample Break or Over Range (standard) • Digital Position or Transverse Strain (option) Import 1 2 3 up 2 m (option) Import 1 2 3 up 2 m (standard) • Servo Control for Automatic Testing Systems (option) 24 key tactlie keypad Test Ze Bee Test Ze Bee Test Ze Bee						Pressure				
 Battery Battery powered units use eight AA batteries Size Dimensions 9.31 Wx8.56 Hx3 DP USB Printer or Flash Drive Port (option) USB Host PC Port (standard) Analog Force (standard) Analog Axial Strain (option) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain Outputs Setup Utils 4 5 6 Jog Up (Standard) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain Outputs Setup Utils 4 5 6 Jog Up (Standard) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain Output Activation (option) Test (Disk Zero Fride Entration (option) 						Transducers Pressure Transducers: 1,000-3,000-5,000-10,000 psi				
 Size Dimensions 9.31"Wx8.56"Hx3"DP Wx8.56"Hx3"DP USB Printer or Flash Drive Port (option) USB Host PC Port (standard) Analog Force (standard) Analog Force (standard) Analog Force (standard) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain (option) View Load Test Diff 7 8 9 500 Stop Control Print 0; 0 0; 0 0; 0 0; Digital Position or Transverse Strain (option) View Load Test Rate Diff 7 8 9 500 Digital Position or Transverse Strain (option) View Load Test Rate Diff 7 8 9 500 Digital Position or Transverse Strain (option) View Load Test Rate Diff 7 8 9 500 Digital Position or Transverse Strain (option) View Load Test Rate Diff 7 8 9 500 Digital Position or Transverse Strain (option) View Load Test Rate Diff 7 8 9 500 Digital Position or Transverse Strain (option) View Load Test Diff 7 8 9 500 Digital Position or Transverse Strain (option) View Load Test Diff 7 8 9 500 Diff 2 0 0; Diff 2 0 0; Diff 2 0 0; Diff 2 0; Dif										
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 Analog Force (standard) Analog Axial Strain (option) Digital Position or Transverse Strain (option) Digital Position or Transverse Strain (option) Method M3 136745 LB LH 2 line x 16 character LCD with 3/8" H characters Test ID# 7 8 9 ESC Stop Setup Utils 4 5 6 for Jog Up Report Store 1 2 3 for Digital Position or Transverse Strain (option) Setup Utils 4 5 6 for Jog Up Control Print (-) Digik Zero Freeze Start 24 key tactile keypad Test 24 key tactile keypad 		Active T	est (,						
A DALET 791 769 0950	 Analog Forc (standard) Analog Axia (option) Digital Posit Transverse S 	e I Strain ion or	2 line x 16 ch Test Method Setup Report Opt	ID# 7 Jtils 4 Store 1 Print (-) Disk	D with 8 5 2 0 2ero	3/8" H c 9 6 3 Freeze	character ESC Stop ↓ Jog Up ↓ Jog Dn	H Test Rate	 5V Output Activated on Sample Break or Over Range (standard) Servo Control for Automatic Testing Systems 	
		ÂDM	ET	-			2			



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