

Gauge Buster 2

Troubleshooting Guide



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6.0 TROUBLESHOOTING

Gauge Buster 2 Troubleshooting		
Problem Description	Possible Causes	Action
<p>Not holding peak load</p> <p>OR</p> <p>Not tracking load while machine actually loading and breaking sample.</p> <p>OR</p> <p>Rate Bar not being displayed.</p>	<p>Sample break threshold and sample break % settings</p>	<p>NOTE: The Gauge Buster 2 digital goes into TESTING MODE when the actual load exceeds the programmed load threshold value. When the Gauge Buster 2 Digital is in the TESTING MODE, the live load is displayed on the upper right and the load rate bar or load rate is displayed in the bottom of the display. If you do not see the load rate bar or the numeric load rate in the bottom display then you are NOT in the testing mode and you need to look at your data logging threshold value.</p> <p>Ensure that the Break Threshold (Sample Brk menu item in the Setup menu) is set to a value that is appropriate for the test. Break Threshold is the point where the Gauge Buster 2 digital is armed for sample break. If the break threshold is too low then a load drop in the early part of the test could trigger the Gauge Buster 2 to detect premature specimen break (end of test) and stop logging data. For example, if the Break Threshold is set to 10lbs (much too low) and the sample break percentage is set to 50% and the load climbed to 20lbs and then dropped to 10lbs the Gauge Buster 2 would detect sample break, stop logging data and report a peak load of 20lbs.</p> <p>Ensure that Sample Break (SETUP, End of Test menu) is set appropriately. Sample Break is defined as a percentage of peak load and is used to define the end of a test. If Sample Break = 10 percent and Peak Load = 100,000 Lb, then the test will terminate when the load drops below 10,000 Lb. Setting sample break percentage to 0 disables it so the Gauge Buster 2 will continue logging data until the test buffer is full. If the sample break percentage is set too high then end of test can be triggered early.</p>
	<p>Applying Load too quickly after taring Gauge Buster PLUS</p>	<p>NOTE: The Gauge Buster 2 is designed for hands-free operation. You should only need to zero the digital once. It is not necessary and NOT recommended to zero the digital prior to each test. Doing so can prevent the digital from going into Testing Mode and not recording the peak load. If you do not see the rate bar or load rate display on bottom line of the display it then the digital is not going into testing mode.</p> <p>Ensure that you are that you are waiting at least 3 seconds after zeroing digital before running a test (applying load to your break machine).</p>

Gauge Buster 2 Troubleshooting (cont'd)		
Problem Description	Possible Causes	Action
Load reading wrong	Calibration	Ensure that correct load calibration is selected. The Active Calibration # is displayed in the upper left of the live screen. The Gauge Buster 2 can store up to six load cell calibrations.
	Analog/Digital Electronics	Contact ADMET technical support.
	Excitation Voltage bad.	Contact ADMET technical support.
	Load Transducer Cable	Replace/fix transducer cable NOTE: refer to See Electrical/Mechanical Data section of this manual for cable wiring information.
	Load Transducer	Replace load transducer
Stress reading wrong	Specimen Information	Stress is a calculated value. It is equal to the load divided by the programmed specimen cross-sectional area. Ensure that Specimen Type and specimen dimension information is correct in the SETUP menu.
Load reading unstable	Calibration	Ensure that there is valid calibration in selected load channel. A valid calibration has at least two points, the first point MUST be zero, appropriate full scale and resolution settings, and a good A/D count span between the points in the calibration.
	Analog/Digital Electronics	Contact ADMET technical support.
	Excitation Voltage bad.	Contact ADMET technical support.
	Load Transducer Cable	Ensure that cable gain strap is properly wired for transducer being used. Replace/fix transducer cable NOTE: refer to See Electrical/Mechanical Data section of this manual for cable wiring information.