

Gauge Buster Plus

Troubleshooting Guide



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TROUBLESHOOTING

Gauge Buster PLUS 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>Threshold AND/OR Sample Break Settings</p>	<p>NOTE: Gauge Buster PLUS Digital goes into TESTING MODE when the actual load exceeds the programmed load threshold value. When the Gauge Buster PLUS Digital is in the TESTING MODE, live load is displayed on upper right and load rate bar or load rate is displayed in the bottom of the display. If you do not see load rate bar or load rate in the bottom display then you are NOT in testing mode and need to look at your Threshold value and your Sample Break value.</p> <p>Ensure that Threshold (SETUP menu) is set to value that is appropriate for test. Threshold is the point where the digital begins data logging and is armed for sample break. If threshold is too low then load drop in early part of test could trigger the Gauge Buster PLUS to detect premature specimen break (end of test) and stop logging data. For example if Threshold is set to 10lbs (much too low) and sample break percentage is set to 50% and the load climbed to 20lbs and then dropped to 10lbs the Gauge Buster PLUS 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. If sample break is set to 0 then Gauge Buster PLUS does not register end of test and if sample break percentage is set very 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 PLUS 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 digital from going into Testing Mode and not record peak load. If you do not see the rate bar or load rate display on bottom line of display it means that 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 applying load to your break machine.</p>
<p>Cannot Transmit data to WinCom/WinCom PLUS.</p>	<p>WinCom is not open</p>	<p>Ensure that WinCom/WinCom PLUS is running and ready to receive data.</p>
	<p>Not initiating transfer from Print menu in Gauge Buster PLUS.</p>	<p>Ensure that you are selecting the proper menu item from the Gauge Buster PLUS Print menu. Print menu items for transfer to WinCom/WinCom PLUS end with -> WC+</p>
	<p>Serial Cable between Gauge Buster PLUS and Computer is not connected</p>	<p>Ensure that null modem cable is properly connected between Gauge Buster PLUS and computer running WinCom/WinCom PLUS software</p>
	<p>Serial Cable incorrect.</p>	<p>Ensure that null modem cable is properly connected between Gauge Buster PLUS and computer running WinCom/WinCom PLUS software</p>
	<p>Proper com port is not selected in WinCom</p>	<p>Select correct com port from Utilities-> Comm menu in WinCom/WinCom PLUS software.</p>
	<p>Baud Rate settings in Gauge Buster PLUS and WinCom do not match</p>	<p>Ensure that Baud Rate selection in Gauge Buster PLUS (Print menu) matches that set in WinCom/WinCom PLUS software; Utilities-> Comm menu.</p>

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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 PLUS can store up to four 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. Valid calibration means calibration with at least two points, appropriate full scale and resolution settings, and 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.

Gauge Buster PLUS Troubleshooting		
Problem Description	Possible Causes	Action
Cannot automatically transmit XY Data to RS232 at the end of test	Not available on the Gauge Buster PLUS	
Cannot automatically transmit test result to RS232 at the end of test.	Action not selected on Gauge Buster PLUS	Ensure that Print menu item in SETUP menu is set to AUTO .
	Serial Cable between Gauge Buster PLUS and Computer is not connected	Ensure that null modem cable is properly connected between Gauge Buster PLUS and computer running WinCom/WinCom PLUS software
	Baud Rate setting on receiving com port.	Ensure that baud rate on receiving port is set to 9600
Cannot stream live XY data to RS232. (Version 0.7t and earlier)	Action not selected on Gauge Buster	Ensure that Stream-> COM menu item in Print menu is set to ON .
	Baud Rate Setting on receiving port.	Ensure that baud rate on receiving port is set to 115,200.
	Serial Cable between Gauge Buster and Computer is not connected	Ensure that null modem cable is properly connected between Gauge Buster and computer running WinCom/WinCom PLUS software
Cannot stream live XY data to RS232. (Version 0.8a and later)	WinCom LIVE software is not open	Ensure that WinCom LIVE software is open and ready to receive data.
	Action not selected on Gauge Buster	Ensure that Stream-> COM menu item in Print menu is set to ON .
	Serial Cable between Gauge Buster and Computer is not connected	Ensure that null modem cable is properly connected between Gauge Buster and computer running WinCom/WinCom PLUS software