

# Chatillon Test Stand and Force Gauge

## Computer Control and Output

### **Purpose:**

Serial interface allows programmed control of test stand and recording of displacement and force values.

### **Equipment:**

Test Stand, Force Gauge, Serial/USB cable between computer and test stand, serial cable between test stand and force gauge. Serial comm program like PuTTY.

### **Setup:**

Plug cables into all devices, power up all devices.

Log into computer, start PuTTY.

Use saved settings named "Test Stand" and stat session.

Gauge comm settings should be:

Note these differ from the test stand and force gauge manuals.

9600 baud, 01 (include units), 8 bit word / 1 bit stop, no parity.

Test Stand and PuTTY comm setting should match. We set these values:

19,200 baud, 01 (include units), 8 bit word / 1 bit stop, no parity.

computer uses COM5, USB port on the right side of computer, nearest the trackpad.

### **Operation:**

Press "xmit" on test stand for displacement and force values to be printed in the console screen of PuTTY. Also, in PuTTY, press "n" on computer for both values. Save console to a text file.

Page 19 of the test stand manual has a full set of key commands.

### **Future Notes:**

A scripting terminal could send a series of commands and evaluate expressions including test stand data. That program has not been identified.

Test stand manual defines routine to control stand movement based on force value. This procedure has not been tried.



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