



SERIES 962

PORTABLE DATA TRANSIENT RECORDER

- Streamlined menu system with a tactile feel keypad, USB ports, and analog output capability
- Measure and record torque, angle, and clamp load characteristics of threaded fastener components
- Two input channels for torque transducers, torque-angle transducers, or tension load cells
- Record graphic data to plot: torque vs. angle, torque vs. tension, torque vs. time, and more
- Print both numeric and graphic data
- PC application for uploading of settings and downloading of data
- Compatible with Auto-ID

TYPICAL APPLICATIONS

- Verify Fastener Torque-Tension
- Analyze Torque Angle Signatures
- Audit, Calibrate, or Certify Performance of Power Tools and Hand Torque Wrenches
- Dynamic Monitoring of Power Tool Testing
- Troubleshoot Problematic Joints

MEASURE, MONITOR, TROUBLESHOOT

PCB's RS Technologies Model 962 Portable Data Transient Recorder is a battery-operated recorder with two transducer inputs that can be used with torque-only, torque-angle, or force transducers. It can serve as a portable threaded fastener laboratory for measuring fastener torque, angle of turn, and clamp load. Ideal for performing fastener analysis, for auditing and certifying power tools, and for testing hand torque wrenches; Model 962 is a cost effective, versatile, and easy-to-use recorder that can collect numeric peak data, XY graphic plots, and store the data to a thumb drive. The data can be easily displayed or printed on a PC running FastPlot2 software. The alphanumeric setup and calibration menus assure ease of operation. The unit can be used with all RS Technologies' rotary torque-angle and clamp force transducers and other conventional and industry-standard strain gage transducers.

Model 962 can print out a numeric data report that contains basic information about the test along with time & date-stamped data for peak torque, angle of turn, clamp load, and torque at tension data. Statistics including high, low, median, ± 3 Sigma, etc. are calculated and included on this report. The numeric test data and the graphic data can be uploaded to a computer via the USB port using the FastPlot2 data transfer and plotting utility. FastPlot2 can also provide additional graphic analysis.

STATISTICS

After three rundowns, Model 962 Portable Data Recorder updates statistics including standard deviation and Cpk. It also flags data as being high or low depending upon the programmed engineering limits.

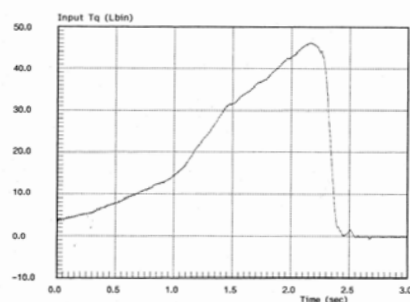
DATA AND COMMUNICATIONS

Graphic plots, numeric data reports, and statistics are printed via the parallel port. Recorded data can be downloaded to a PC via the serial port for further analysis using the FastPlot2 software. Program updates are easily uploaded through the USB port.

REAL-TIME PLOTTING CAPABILITIES

Model 962 captures real-time and peak readings for torque-angle, torque-clamp load, or torque-time and immediately displays or plots one of the following, based upon the instrument setup:

- Torque vs. Time
- Torque vs. Angle
- Torque & Angle vs. Time
- Torque & Clamp Force vs. Time
- Torque and Clamp Force vs. Angle
- Clamp Force vs. Torque
- Tool RPM vs. Time
- Tool RPM vs. Angle



Torque vs. Time Assembly Plot

SPECIFICATIONS

Model Number		
Full Model Number	080962-01000	
Short Model Number	962	
Performance		
Torque and Force Input Channels		
Input Range	±2.5 mV/V, ±4.5 mV/V, ±5 VDC	
Excitation	5 VDC, 120 mA Maximum	
Resolution	21 -bit	
Non-linearity	0.25% Maximum (F.S.)	
Frequency Response	10 kHz	
Positive Voltage Peak Trap Circuit	7 ms Reset Time	
Peak Threshold	Software Programmable	
Peak Reset	Manual or Software Programmable (Automatic Reset)	
Angle Input Channel		
Type	Quadrature A/B Track	
Excitation	5 VDC	
Input Frequency	1000 kHz Maximum	
Physical		
Temperature Range	+32 to +158 °F (0 to +70 °C)	
Display		
Viewing Area	4.85 x 2.68 in (123 x 68 mm)	
Resolution	240 x 128 Pixels, Backlit LCD	
Battery		
Indication	Battery Low Indication	
Battery Life	8 Hours Maximum, Continuous Use	
Charge Time	3.5 Hours, Maximum	
Dimensions		
Size (W x D x H)	10.12 x 8.50 x 3.25 in	257.0 x 215.9 x 85.1 mm
Weight	6.0 lb	2700 gm
Mating Connectors		
Channel 1 and Channel 2	DB, 15 Pins	
TTL/IO	DB, 25 Pins	
USB Port A	A Type	
USB Port B	B Type	

Supplied Accessories

FastPlot2 Upload/Graphing Utility for PC Running Windows® 7/10, Battery Charger, USB Cable, 8GB USB Memory Drive, Instruction Manual, Carrying Case, & A2LA Accredited Calibration Certificate