The RS Technologies product line Model 920 Portable Digital Transducer Instrument can be used with other RS Technologies’ products such as the Stationary Torque Tool Transducer, Rotary Torque Transducers, Force Washers, and more.

The instrument fits comfortably in your hand and is powerful and accurate enough to be used as a primary standard for auditing most torque applications in manufacturing and quality departments. When connected to a Rotary Torque Transducer, the unit can be used to test the capability of power tools, verify the accuracy of hand tools, monitor the capability of a fastening process, or audit the quality of an assembled joint. Model 920 can also be easily set up for use with force washers, clamp force sensors, and other transducers to measure fastener assembly preload, press force, pressure, and numerous other applications.

Model 920 can monitor and record data quickly, easily, and accurately. The alphanumeric display is easy to read and prompts you through setup and operation as needed. The unit displays track and peak torque or force simultaneously and measures in either the clockwise or counterclockwise (compression or tension) direction. Model 920 can also read the auto ID chip in RS Technologies’ transducers to simplify setup.

The built-in serial port allows for printing data and statistics right from the unit. The recorded data can also be uploaded to a personal computer for further analysis using the HyperTerminal application provided with Microsoft Windows®.
## SPECIFICATIONS

### Performance
- **A/D Resolution**: 16-bit
- **Accuracy**: ±0.500% FS Peak Mode, ±0.5% FS Track Mode
- **Angle Input**: Quadrature, A/B Track
- **Angle Resolution**: Transducer CPR Dependant
- **Bridge Excitation**: 5 VDC
- **Calibration**: External Binding Posts
- **Communications Port**: RS232 Serial for Printout or Upload to Computer via HyperTerminal
- **CW/CCW Operation**: Software Selectable
- **Data Memory**: Automatic Storage of 300 Peak Torque Angle or Force Readings, Scrolling Feature for Viewing Readings, Last Reading Deletable
- **Dimensions (L x W x H)**: 2.750 x 4.375 x 8.500 in (70 x 111 x 216 mm)
- **Display**: LCD, 20 Alphanumeric Characters by 4 Lines with 5-digit Readout Plus 6-digits for Angle
- **Enclosure**: High Impact Plastic with Shoulder Strap
- **Engineering Units**: Software Selectable (lbf·ft, lbf·in, ozf·in, N·m, kg·cm, kg·m, lb, and N)
- **Frequency Response**: Software Selectable Filter 500 and 1000 Hz or Off (3200 Hz)
- **Humidity**: 5 to 95% N.C.
- **Input Power**: Nickel-Metal Hydride (NiMH) Battery, AC Battery Charger 115/220 VAC, Low Battery Charge Warning
- **Input Signal**: Compatible with Conventional Strain Gage Transducer with Outputs Ranging from 0.8 to 5.0 mV/V and with High Level Devices up to ±5 VDC
- **Keypad**: 16-key Numeric and Special Function
- **Maximum Angle Count**: 10k Degrees
- **Operating Temperature**: 0 to +55 °C (+32 to +131 °F)
- **Options**: Multiple Limit Sets
- **Printout**: Transducer and Limits Data, Time and Date Stamped Peak Data, Angle at Peak (if Used), and Statistics
- **Recommended Recalibration**: Yearly
- **Statistics**: High, Low, Mean, Standard Deviation, ±3 Sigma, Cp, and Cpk; Calculations Based on Software Selectable Sample Size or Entire Population
- **Weight**: 1.5 lb (680.4 g)

### Supplied Accessories
- Battery Charger, Shoulder Strap, Instruction Manual, Calibration Certificate

### Recommended Accessories
- Serial Communications Cable, Local Serial Printer