



SERIES HT7000 & HTA7000

HAND TORQUE WRENCHES

- Durable, lightweight, ergonomic design
- Measure torque and the degrees of rotation (angle)
- Excellent overall accuracy
- Compatible with most strain gage instruments and data collectors
- Comfortable foam handle
- Available in a variety of drive sizes and capacities
- Optional tricolor LED to signal within limits, high, or low measurement

TYPICAL APPLICATIONS

- Post-assembly Torque Auditing
- Bolted Joint Troubleshooting
- High Precision Final Assembly
- Torque-Angle Signature Analysis

TROUBLESHOOTING AND AUDITS

PCB's RS Technologies Series HT7000 Electronic Hand Torque Wrenches are lightweight, yet durable enough to be used in the toughest industrial environments. The narrowed head is ideal for access when space is at a premium. The foam handgrips allow for operator comfort.

Series HT7000 Torque Only Wrenches are available with an optional tricolor LED, and when used with Model 922 Portable Digital Meter, provide in-spec/out-of-spec feedback.

Series HTA7000 Torque-Angle Wrenches are able to acquire a high-resolution angle measurement. These wrenches are ideal for troubleshooting bolted joints and torque-angle audits using Torque Angle Signature Analysis techniques as well as employing the M-Alpha Audit Method.

When equipped with an Auto-ID chip, setup and calibration is quick and easy when used with RS Technologies instruments, such as the Model 962 Portable Data Transient Recorder and the Model 922 Portable Digital Meter.

STANDARD HAND TORQUE WRENCHES				
Torque-Angle w/ Auto-ID (Model #)	Torque Only w/ LEDs & Auto-ID (Model #)	Torque Only (Model #)	Drive Size	Capacity
---	---	027025-04021	1/4 inch Hex Drive	20 lbf-in (2.3 Nm)
---	---	027025-04061	1/4 inch Hex Drive	60 lbf-in (6.9 Nm)
---	---	027125-04051	1/4 inch Square Drive	50 lbf-in (5.6 Nm)
027125-07012	027125-03012	027125-04012	1/4 inch Square Drive	100 lbf-in (11.4 Nm)
027137-07022	027137-03022	027137-04022	3/8 inch Square Drive	200 lbf-in (22.7 Nm)
027137-07051	027137-03051	027137-04051	3/8 inch Square Drive	50 lbf-ft (68.0 Nm)
027250-07101	027250-03101	027250-04101	1/2 inch Square Drive	100 lbf-ft (136.0 Nm)
027250-07201	027250-03201	027250-04201	1/2 inch Square Drive	200 lbf-ft (271.2 Nm)
027250-07301	027250-03301	027250-04301	1/2 inch Square Drive	300 lbf-ft (407.0 Nm)
027375-07501	027375-03501	027375-04501	3/4 inch Square Drive	500 lbf-ft (678.0 Nm)
027375-07601	---	027375-04601	3/4 inch Square Drive	600 lbf-ft (813.6 Nm)

SPECIFICATIONS	
Output at Rated Capacity	2 mV/V $\leq 0.25\%$ FS
Shunt Calibration	2 mV/V with 43.575 k Ω Precision Resistor
Interchangeability	Matched for mV/V and Shunt Calibration $\leq 0.3\%$ FS
Overload Capacity	150% FS
Non-linearity	$\leq 0.25\%$ FS
Hysteresis	$\leq 0.25\%$ FS
Excitation Voltage	10 VDC Maximum
Bridge Resistance	350 Ω
Compensated Temperature Range	+70 to +150 °F +21 to +66 °C
Operating Temperature Range	0 to +200 °F -18 to +93 °C
Temperature Effect on Zero	$\pm 0.01\%$ FS/°F $\pm 0.018\%$ FS/°C
Temperature Effect on Output	$\pm 0.001\%$ Reading/°F $\pm 0.0018\%$ Reading/°C
Connector	Torque Only - Hex Drive = PT02A-8-4S Torque Only - Square Drive = PT02H-8-4P Torque-Angle or Torque Only w/ LEDs = PT02H-12-10P
Supplied Accessories	
Shunt Calibration Resistor, & A2LA Accredited Calibration Certificate	
Recommended Accessories	
080922-01000	Model 922 Portable Digital Meter
080962-01000	Portable Data Transient Recorder
097000-34445	Cable Assembly, Auto-ID, 2-ft coiled, DB-15P to PT06A-12-10S
097000-00016	Cable Assembly, Auto-ID, 16-ft straight, DB-15P to PT06A-12-10S
099404-30563	Cable Assembly, Non-Auto-ID, 10-ft straight, DB-15P to PT06A-12-10S
097000-34149	Cable Assembly, Non-Auto-ID, 2-ft coiled, DB-15P to PT06A-8-4S
099404-34011	Cable Assembly, Non-Auto-ID, 3-ft straight, DB-15P to PT06A-8-4S
099404-30610	Cable Assembly, Non-Auto-ID, 10-ft straight, DB-15P to PT06A-8-4S
090900-31163	Cable Assembly, 20-ft straight, PT06A-12-10 to Pigtail Leads
090970-31583	Cable Assembly, 6-ft straight, PT06A-8-4S to Pigtail Leads
097000-0015P	DB-15P Connector w/ Strain Relief & Thumbscrews
4242R-000630	PT06A-12-10S(470) Connector
4242R-000600	PT06A-8-4S(470) Connector