PCB PIEZOTRONICS
MTS SYSTEMS CORPORATION

SERIES **HTA7000**

HAND TORQUE-ANGLE WRENCHES

- Durable, ergonomic design
- Lightweight, high strength
- Excellent overall accuracy
- High resolution angle measurement
- Compatible with most strain gage instruments and data collectors
- Wide range of torque capabilities
- Comfortable foam handle

TYPICAL APPLICATIONS

- Post-assembly Torque Auditing
- Torque-Angle Signature Analysis
- Bolted Joint Troubleshooting

TROUBLESHOOTING AND AUDITS

The RS Technologies product line Series HT7000 Hand Torque-Angle Wrenches are rugged and lightweight, yet durable enough to be used in the toughest industrial environments, and the narrowed head is ideal for access when space is at a premium. With 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 patented by RS Technologies. Equipped with an ID chip, setup and calibration is quick and easy when used with RS Technologies instruments, such as the Model 962 Portable Data Recorder and the Model 920 Portable Digital Transducer Instrument.

Calibration services for this and other torque and force products are available at PCB Piezotronics' A2LA Accredited Calibration Laboratory in Farmington Hills, Michigan.

As with all PCB® instrumentation, these products are complemented with toll-free applications assistance, 24-hour service, and are backed by a no-risk policy that guarantees total customer satisfaction or your money refunded.

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SPECIFICATIONS	
Output at Rated Capacity	2 mV/V ≤0.25% FS
Shunt Calibration	2 mV/V with 43.575 kΩ Precision Resistor
Interchangeability	Matched for mV/V and Shunt Calibration ≤0.3% FS
Overload Capacity	150% FS
Non-linearity	≤0.25% FS
Hysteresis	≤0.25% FS
Excitation Voltage	10 VDC Maximum
Bridge Resistance	350 Ω
Operating Temperature Range	+70 to +150 °F +21 to +66 °C
Useable Temperature Range	0 to +200 °F -18 to +93 °C
Temperature Effect on Zero	±0.01% FS/°F ±0.018% FS/°C
Temperature Effect on Output	±0.001% Reading/°F ±0.0018% Reading/°C
Connector	PT02H-12-10P
Supplied Accessories	
Shunt Calibration Resistor, & A2LA Accredited Calibration Certificate	
Recommended Accessories	
080920-01000	Model 920 Portable Digital Transducer Instrument
080962-01000	Model 962 Portable Data Recorder
097000-34445	Cable Assembly, 10' Coiled, PT to DB15 Male
4242R-000630 **PT06A-12-105 (SR)**	Mating Connector, Standard

HAND TORQUE WRENCHES WITH LEDS				
Model No.	**Capacity**	**Drive Size**	**Length**	**Weight**
027125-07012	100 lbf-in (11 Nm)	¼-inch Square	8 in (203 mm)	11.2 oz (318 g)
027137-07022	200 lbf-in (23 Nm)	⅜-inch Square	12 in (305 mm)	12.8 oz (363 g)
027137-07051	50 lbf-ft (68 Nm)	⅜-inch Square	12 in (305 mm)	12.8 oz (363 g)
027250-07101	100 lbf-ft (136 Nm)	½-inch Square	21 in (540 mm)	1.8 lb (816 g)
027250-07201	200 lbf-ft (271 Nm)	½-inch Square	21 in (540 mm)	1.8 lb (816 g)
027250-07301	300 lbf-ft (407 Nm)	½-inch Square	28 in (711 mm)	3.2 lb (1.5 kg)
027375-07501	500 lbf-ft (678 Nm)	¾-inch Square	44 in (1118 mm)	6.5 lb (3.0 kg)

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PCB Piezotronics, Inc. is a designer and manufacturer of microphones, vibration, pressure, force, torque, load, and strain sensors, as well as the pioneer of ICP® technology used by design engineers and predictive maintenance professionals worldwide for test, measurement, monitoring, and control requirements in automotive, aerospace, industrial, R&D, military, educational, commercial, OEM applications, and more. With a worldwide customer support team, 24-hour SensorLine℠, and a global distribution network, PCB® is committed to Total Customer Satisfaction. Visit www.pcb.com for more information. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corporation. Additional information on MTS can be found at www.mts.com.

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MTS SENSORS

MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), vastly expanded its range of products and solutions after MTS acquired PCB Piezotronics, Inc. in July, 2016. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corp.; IMI Sensors and Larson Davis are divisions of PCB Piezotronics, Inc.; Accumetrics, Inc. and The Modal Shop, Inc. are subsidiaries of PCB Piezotronics, Inc.