



Stationary Torque Transducer

For Use in Power and Hand Tool Audit, Calibration, & Certification

Highlights

- Capacities from 100 lbf-in to 500 lbf-ft (11 to 678 Nm)
- 1/4 to 3/4-inch square drives
- Bi-directional
- Includes internal square drive adapter
- Keyed base for secure installation in tool shop or on test cart

Applications

- Measure and Record Torque Load Characteristics of Electric, Pneumatic, or Mechanical Torque Tools
- Audit and Certify Transducerized Tool Calibration and Performance Capability
- Test Torque or Torque-angle Power Tools or Hand Torque Wrenches



Model 077037-00051

PCB Load & Torque Division's RS Technologies Series ST7000 Stationary Torque Transducers are ideal for auditing and certifying power tools and hand torque wrenches, when used with Model 920 Portable Digital Transducer Instrument. Model 920 is a battery-operated, hand-held peakmeter with a single torque input. Together, Series ST7000 and Model 920 can measure peak torque and its special "click" wrench feature makes it easy to use for calibrating mechanical "click" type wrenches. It is a cost-effective, versatile, and easy to use data collector and can record up to 300 rundowns. Its alphanumeric setup and calibration menus assure ease of operation.

With optional Rundown Adaptors, Series ST7000 Stationary Torque Transducers can verify the performance of pneumatic and electronic power tools.

RS Technologies provides calibration services for this and their other torque and force products at its A2LA Accredited Calibration Laboratory in Farmington Hills, Michigan.

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



Series ST7000 Stationary Torque Transducer

Stationary Torque Tool Transducer

Model No.	Drive Size	Capacity	Outer Diameter x Height
077025-00012	1/4-inch Square	100 lbf-in (11 Nm)	4.00 in x 1.75 in (101.60 mm x 44.45 mm)
077037-00022	3/8-inch Square	200 lbf-in (23 Nm)	4.00 in x 1.75 in (101.60 mm x 44.45 mm)
077037-00051	3/8-inch Square	50 lbf-ft (68 Nm)	4.00 in x 1.75 in (101.60 mm x 44.45 mm)
077050-00101	1/2-inch Square	100 lbf-ft (136 Nm)	4.00 in x 1.75 in (101.60 mm x 44.45 mm)
077050-00201	1/2-inch Square	200 lbf-ft (271 Nm)	4.00 in x 1.75 in (101.60 mm x 44.45 mm)
077075-00501	3/4-inch Square	500 lbf-ft (678 Nm)	4.00 in x 2.13 in (101.60 mm x 54.10 mm)

Common Specifications

Output	2 mV/V
Shunt Calibration	Matched 2 mV/V with 43.575 kOhm Precision Resistor
Overload Capacity	150% of FS
Non-linearity	≤0.25% FS
Hysteresis	≤0.25% FS
Zero Balance	≤2.00% FS
Excitation, Recommended	10 VDC or AC (RMS)
Bridge Resistance	350 Ohms
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	±0.01% FS / °F ±0.018% FS / °C
Temperature Effect on Output	±0.01% Reading / °F ±0.018% Reading / °C
Connector	PT02H-8-4P

Supplied Accessories

Square Drive Adapter, Shunt Calibration Resistor, & A2LA Accredited Calibration Certificate

Recommended Accessories

Mating Connector	4242R-000600 PT06A-8-4S(SR)
Model 920 Portable Digital Transducer Instrument	080920-0100
Cable Assembly, 10' Coiled, PT to DB15 Male	097000-34149

Optional Rundown Adapters

Model No.	Drive Size	Capacity Range
92300-063971	1/4-inch Square	2 to 25 lbf-in 0.3 to 2.3 Nm
92300-063972	1/4-inch Square	5 to 50 lbf-in 0.5 to 5.6 Nm
92300-063973	1/4-inch Square	10 to 100 lbf-in 1.1 to 11.3 Nm
92300-063978	3/8-inch Square	5 to 50 lbf-ft 6.8 to 67.8 Nm
92300-063981	1/4-inch Square	10 to 100 lbf-ft 13.6 to 135.6 Nm
92300-063982	1-inch Square	25 to 250 lbf-ft 33.9 to 339.0 Nm
92300-063983	3/4-inch Square	50 to 500 lbf-ft 67.8 to 678.0 Nm



Model 077037-00051



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ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

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