

# SOCKET EXTENSION ROTARY TORQUE SENSORS WITH 1/4, 3/8, 1/2, AND 3/4" DRIVES

## TQ502 Series

All Models  
**\$1635**



- ✓ Ideal for Use with Production Fastening Applications
- ✓ Bidirectional Measurement
- ✓ Ideal for Use with Drive/Socket Systems
- ✓ Used for Static or Dynamic Torque Measurement

### SPECIFICATIONS

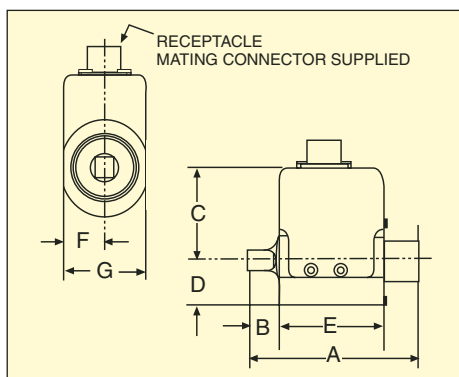
**Rated Output:** 1 to 3 mV/V nominal (calibration sheet provided)  
**Excitation:** 10 Vdc, 20 Vdc maximum  
**Accuracy:** ±0.37% FS  
**Linearity:** ±0.25% FS  
**Hysteresis:** ±0.25% FS  
**Repeatability:** ±0.1% FS  
**Zero Balance:** ±1.0% FS  
**Operating Temp Range:** -55 to 120°C (-65 to 250°F)  
**Compensated Temp Range:** 0 to 75°C (32 to 170°F)  
**Thermal Effects:**  
**Zero:** ±0.002% FS/°F  
**Span:** ±0.002% rdg/°F  
**Max Load:**  
**Safe:** 115% FS (TQ502-600, TQ502-2.4 K), 150% FS (other models)  
**Ultimate:** 150% FS (TQ502-600, TQ502-2.4 K), 200% FS (TQ502-1.5K, TQ502-6 K), 300% (other models)  
**Bridge Resistance:** 1000 Ω  
**Maximum rpm:** 3000  
**Brush Life (Hours):** 4.6 x 10<sup>6</sup>/rpm  
**Construction:**  
**Sensor:** Black anodized tool steel  
**Housing:** Black anodized aluminum  
**Electrical:** Mating connector supplied  
**Weight:** 226 g (8 oz)



DP41-S, meter, \$545, shown smaller than actual size, see page D-29.



TQ502-600, \$1635, shown smaller than actual size.



Dimensions: mm (in)

MODEL NO.	A	B	C	D	E	F	G
TQ502-25	95 (3.75)	18 (0.69)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-50	95 (3.75)	18 (0.69)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-125	76 (3.00)	14 (0.54)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-200	82 (3.22)	17 (0.66)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-600	82 (3.22)	17 (0.66)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-1.5K	89 (3.50)	21 (0.84)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-2.4K	89 (3.50)	21 (0.84)	51 (1.99)	25 (0.98)	53 (2.08)	25 (1.00)	51(2.00)
TQ502-6K	130 (5.10)	24 (0.96)	46 (1.80)	28 (1.12)	64 (2.50)	25 (1.00)	51(2.00)

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

MODEL NO.	PRICE	DRIVE	OUTPUT (mV/V) (NOMINAL)	RANGE (in-lb)	COMPATIBLE METERS*
TQ502-25	\$1635	1/4" HEX	1.0	0-25	HHP-SG, MDS41-S, DP41-S
TQ502-50	1635	1/4" HEX	2.0	0-50	HHP-SG, MDS41-S, DP41-S
TQ502-125	1635	1/4" SQ	2.0	0-125	HHP-SG, MDS41-S, DP41-S
TQ502-200	1635	3/8" SQ	1.5	0-200	HHP-SG, MDS41-S, DP41-S
TQ502-600	1635	3/8" SQ	3.0	0-600	HHP-SG, MDS41-S, DP41-S
TQ502-1.5K	1635	1/2" SQ	3.0	0-1500	HHP-SG, MDS41-S, DP41-S
TQ502-2.4K	1635	1/2" SQ	3.0	0-2400	HHP-SG, MDS41-S, DP41-S
TQ502-6K	1635	3/4" SQ	3.0	0-6000	HHP-SG, MDS41-S, DP41-S

Comes with complete operator's manual.

\* See section D for compatible meters.

**Ordering Example:** TQ502-600, socket extension rotary torque sensor with 3/8" square drive, \$1635.



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[www.omega.com](http://www.omega.com)  
1-800-TC-OMEGA  
Stamford, CT.

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Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

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