



- *High torsional stiffness*
- *Fatigue rated*
- *0.1% accuracy*
- *Capacities 1K to 1000K lb-in*
- *SAE 4340 Alloy Steel*
- *Supplied with mating connector*

SensorData's T150 Series of fatigue rated flange coupled torque sensors is designed for use during life testing and "test-to-failure" of drive-line components and where there is a small degree of angular rotation or reciprocating motion involved. The T150 Series with inherent low-end measurement capability can be installed at the driver or absorber end of the measurement chain. Each flange face is provided with a pilot diameter to assist installation. AC carrier or DC strain gage signal conditioning electronics can be used with the T150 Series. Interconnecting cable assemblies are available as an option. In-house calibration of the T150 Series with SensorData's electronics will be provided free of charge or with customer-supplied electronics for a fee.

Specifications

(Subject to change without notice)

Rated Capacity	1K, 2K, 5K, 10K, 20K, 50K, 100K, 200K, 500K, 1000K lb-in
Nonlinearity	0.10% of rated output
Hysteresis	0.10% of rated output
Nonrepeatability	0.05% of rated output
Rated Output, typical	2.00 mV/V
Zero Balance	+/-1% of rated output
Temperature Range, operating	-65 to +200 F
Temperature Range, compensated	+70 to +170 F
Temperature Effect on Output	0.002% of load/F
Temperature Effect on Zero	0.002% of rated output/F
Bridge Resistance, typical	350 ohms
Excitation Voltage, bridge, typical	10 VDC or VAC rms
Excitation Voltage, bridge, maximum ⁽¹⁾	20 VDC or VAC rms
Insulation Resistance, bridge to case	>5000 megohms at 50 VDC
Maximum Load, safe ⁽²⁾	150%
Maximum Load, ultimate ⁽³⁾	300%
Torsional Stiffness, typical	See table next page
Extraneous Loads, maximum	See table next page
Number of Bridges	1
Weight	Consult factory
Construction	SAE 4340 Alloy Steel

⁽¹⁾ Temperature gradients caused by higher excitation voltages may effect performance.

⁽²⁾ With load centered maximum torque that can be applied without producing a permanent shift in performance characteristics.

⁽³⁾ With load centered maximum torque that can be applied without physical damage.

