



Wheel Torque Transducer

- 12,500 lb-ft (16,948 N-m) capacity
- Adapts to single or dual 16" or larger wheels
- · Environmentally protected
- Temperature compensated
- Rugged stainless steel construction
- · Consistent sensitivity among all units
- Configured to reduce magnetic sensitivity



Description

Michigan Scientific's *TW-2T-12.5K Wheel Torque Transducer* is ideal for measuring wheel torque on full size Pickups, Vans, SUV and light truck, median truck. Designed to attach to adapters that simulate production wheel rims, this unit provides one channel of torque data. The adapter system is fabricated by generating a profile of the original wheel rim and designing a hub adapter and rim adapter that duplicate the critical dimensions of the original rim. The hub adapter fastens to the interior bolt circle of the torque transducer, and the rim adapter fastens to the exterior bolt circle. The versatility of this system allows the torque transducer to be used with various wheel rim designs.

Both the torque and combined steer/camber moment load ratings of the *TW-2T-12.5K* transducer are *12,500* lb-ft. High grade stainless steel material and weatherproof sealing combine to provide excellent resistance to corrosion and environmental conditions. Temperature compensation ensures stable output throughout a wide temperature range. In addition, all wires are precisely located to reduce sensitivity to magnetic effects.

Specifications

Maximum Load Capacity	12,500 lb-ft (16,948 N-m)
Full Scale Load	12,500 lb-ft (16,948 N-m)
Full Scale Output	1.5mV/V nominal
Sensor	4 arm strain gage bridge
Nonlinearity	0.1% of full scale output
Hysteresis	0.05% of full scale output
Repeatability	0.05% of full scale output
Zero Balance	Within ± 5.0% of rated output at zero load
Bridge Resistance	180 Ω or 525 Ω nominal
Temperature Range, Compensated	75°F to 250°F (24°C to 121°C)
Temperature Effect on Zero	0.003% full scale/ °F (0.005% full scale/ °C)
Temperature Range, Useable (Short Term)	-40°F to 350°F (-40°C to 177°C)
Temperature Range, Useable (Long Term)	-40°F to 300°F (-40°C to 149°C)
Excitation Voltage, Maximum	10V DC or AC rms
Insulation Resistance, Bridge/Case	Exceeds 5000 M Ω
Output Connector	Bendix PTY02E-8-4P
Mating Connector	Bendix PT06E-8-4S (SR)