

Component Dynamometer [110XX]

These sensors are designed to simultaneously measure both torsion and thrust loads and are typically used in test systems to characterize elastomeric materials and components. These sensors are also installed in dynamometers and road load simulators. They are used to characterize quality and durability of production components for suspensions, drivetrains, steering controls, brakes, and other ride handling components.



Full-scale torque/thrust measurement capabilities from as low as 250in-lbs/550lbs (25N-m/2.5kN) up to 100kin-lbs /220klbs (10kN-m/1000kN). These sensors can also be vacuum rated, as well as cross-talk compensated.

All sensors include an ISO-17025 accredited calibration certificate.

SPECIFICATIONS

Capacities..... See Drawing
Overload capacity..... 150% of F.S.
Output at F.S..... 2.0 mV/V nominal
Non-linearity..... 0.15% of F.S.
Hysteresis..... 0.10% of F.S.
Zero balance..... 1% of F.S.
Compensated temperature..... 70 to 170°F
Useable temperature..... -65 to +250°F
Temperature effect on zero..... 0.002% of F.S./°F
Temperature effect on span..... 0.002% of Rdg./°F
Excitation voltage, maximum..... 20 Vdc