KEMKRAFT ENGINEERING, INC.

MODEL KEI-434 STEERING WHEEL TORQUE SYSTEM

DESCRIPTION

The KE434X1 sensor attaches to a vehicles steering wheel and measures steering wheel torque of the vehicle under test. The KE434X1 Effort Sensor is very small and clamps onto the rim of a wheel with a single point clamp. This allows for clamping onto any configuration of steering wheel. The KEI-434 Signal Conditioner & Transmitter is mounted in a housing the same weight of the Effort Sensor. The KEI-434 Transmitter is mounted on the wheel, 180 degrees apart from the KE434X1, to insure proper balance on the steering wheel. An operator drives the vehicle, to be tested, in a normal manner with a knob on the KE434X1 sensor. The measured torque is transmitted wirelessly via an RF transmitter to the receiver, which in the past has been achieved with cumbersome wires. Kemkrafts system is compatible and risk free with S.I.R. air bags. The KEI-434 Receiver is powered through the cigar lighter socket, is a computerized data acquisition system and receives the torque value, under test, via an RF link. The received data is 1.) displayed on an LCD display for dynamic viewing and 2.) stored in the computer memory for SPC purposes. After many tests have been performed, the Receiver box can be connected to an IBM computer to download the test data for SPC work.

KEI-434 / KE434X1 SPECIFICATIONS

POWER REQUIREMENTS:	12 - 20 VDC
TORQUE RANGE:	+/- 10 NM w/ +/-15 NM overrange
RESOLUTION:	+/- 0.01 Newton Meters
ACCURACY:	+/- 1.0% of Full Scale
OPERATING TEMP RANGE:	50 Deg F. - 100 Deg F.
ANALOG DATA OUTPUT:	+/- 10 VDC @ Full Scale
SAMPLING RATE:	10 Samples Per Second

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