

Dynamic Torque Sensors on Race Vehicles

KA Sensors Ltd offer a service to race teams and race car manufacturers for the design and supply of dynamic torque sensors.

We will either incorporate a strain gauge sensor into an existing component or build a customer sensor to suit a particular installation.

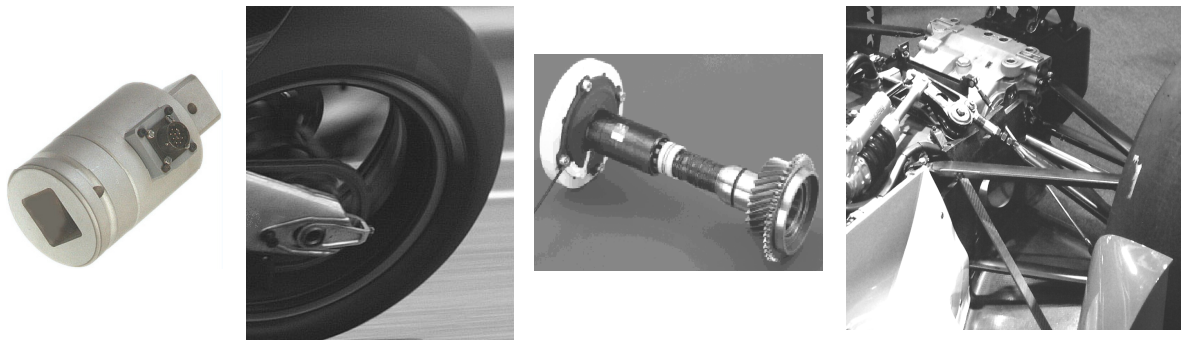
With over 30 years of sensor design experience, we are able to offer a wide range of rotary and static torque sensors for use in very demanding environments such as vibration, shock, moisture and temperature.

By using leading edge strain gauge techniques and state of the art electronics we are able to measure strain on drive shafts rotating at over 20,000rpm. Our non-contact telemetry system requires no batteries and is truly a stand alone system.

Every sensor is tested and issued with traceable calibration certificate before shipping.

Some typical installations include:

- ✓ *Half shaft torque*
- ✓ *Steering column*
- ✓ *Drive line shafts*
- ✓ *Torsion damper systems*
- ✓ *Wheel dynamics*
- ✓ *Test bench*



Typical specifications:

<i>Torque range:</i>	<i>100 to 2,000Nm</i>
<i>Supply:</i>	<i>8-16V</i>
<i>Output:</i>	<i>0.5 to 4.5V ($\pm 2V$)</i>
<i>Accuracy:</i>	<i><0.5% FS combined linearity & hysteresis</i>
<i>Operating temperature:</i>	<i>-20 °C to +120 °C</i>
<i>Compensated temperature:</i>	<i>0 °C to +70 °C (option of full operating temp range)</i>
<i>Zero shift within CTR:</i>	<i><0.02% FS/°C</i>
<i>Span shift within CTR:</i>	<i><0.02% of reading/°C</i>

KA Sensors Ltd. PO Box 8826. Grantham. Lincolnshire. NG31 0AR. [UK](http://www.kasensors.co.uk)

t/f: +44 (0)1476 561495

m: +44 (0)7976 959621

e: sales@kasensors.co.uk

w: www.kasensors.co.uk