

Temperature Compensated Strain Gauge Amplifier

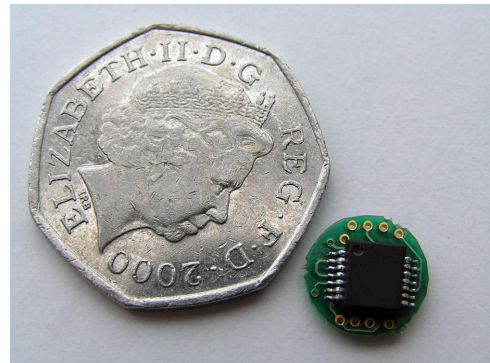
KA Sensors Ltd offer a service to race teams and race car manufacturers for the design and supply of strain gauge sensors and systems.

By using our **temperature compensated strain gauge amplifier** we can measure and compensate the temperature induced errors in a strain gauge system.

Our miniature amplifier board and its associated emi/rfi board measures only 11mm diameter and therefore is ideally suited to many applications found on racecars. The amplifier is available ready installed onto strain gauged component or as a separate in-line module.

Some typical installations include:

- ✓ Push rod load cells
- ✓ Gear shift lever
- ✓ Steering column torque
- ✓ Wishbone
- ✓ General chassis stress analysis
- ✓ Aero development
- ✓ Pressure sensors
- ✓ Accelerometers
- ✓ Position sensors



Typical specifications:

Supply:	8-16V or 5V ratiometric
Strain gauge supply:	5V
Strain gauge input:	2mV/V to 63mV/V
Output:	0.5 to 4.5V
Supply current:	<20mA
Output impedance:	<1k Ω
Linearity:	<0.1% FS
Operating temperature:	-40 to +140 $^{\circ}$ C
Compensated temperature CTR:	0 to 120 $^{\circ}$ C (optional within operating temp range)
Offset shift within CTR:	<0.1% FS
Sensitivity shift within CTR:	<0.1% of reading
Response time:	0.1mS
EMI/RFI:	EN 50082-1

Note: the above values are typical and may vary depending upon individual installation parameters.

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