

430 GT damper loadcell

The BERU f1 Systems Ferrari 430GT Damper Loadcell is design to replace the damper eye. It offers previously unseen levels of accuracy throughout the whole temperature range by incorporating a microprocessor-controlled amplifier. (Please refer to 'Microprocessor Corrected Strain Gauge' data sheet for more details). The Loadcell body has been specifically designed by BERU F1 Systems to offer very repeatable and accurate data that is not affected by suspension adjustment changes.



The BERU F1 Systems microprocessor measures the temperature of the strain gauges and applies a correction at each temperature step for offset and span errors in the calibration. This produces an output that is far more accurate than even the best compensated gauges. This also allows all parts to have a generic calibration, which means that there is no need to enter a specific part calibration when changing loadcells. Each part is individually calibrated in a computer-controlled oven over a full load and temperature range and each part retains its own unique calibration table.

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Specification

Electrical

- 7 - 18 Volt supply range
- Non-ratiometric output, supply voltage changes do not affect the output.
- Supply current <30mA
- High level 0 - 5V output, no requirement for additional strain gauge amplifiers
- Identical output for all parts, no calibration data entry for each part
- Combined non-linearity, hysteresis and repeatability <0.3% FSO
- Thermal zero shift over compensated range 0.1% FSO
- Thermal sensitivity shift over compensated range 0.2% FSO
- Internal 150Hz 2-pole low-pass Butterworth filter

Environmental

- Compensated temperature range 10°C to 125°C
- Operating temperature range 0°C to 125°C
- Sealed to IP65



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