

# API-Cecom Group n'fo

## Technical & Application Note C191

Application: Monitor pressure on tires during dynamometer testing  
Type Of company: Automobile manufacturer  
Location: Michigan

**Problem:** The customer is an automobile manufacturer. A chassis dynamometer, sometimes referred to as a rolling road, measures power delivered to the surface of the "drive roller" by the drive wheels. Chassis dynamometers can be fixed or portable, and can do much more than display RPM, horsepower, and torque. With modern electronics and quick reacting, low inertia dyno systems, it is now possible to tune to best power and the smoothest runs in real time. Chassis dynamometer test cells often integrate emissions sampling, measurement, engine speed and load control, data acquisition, and safety monitoring into a complete test cell system.

*Note: For additional information on this process see <http://en.wikipedia.org/wiki/Dynamometer>*

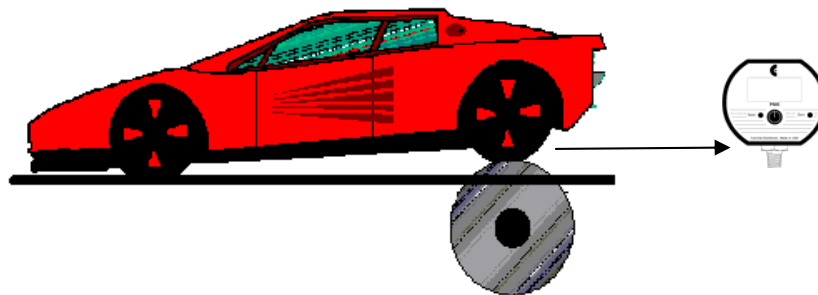
The customer is using the chassis dynamometer to perform thermal profiling and reliability temperature testing on the tires while testing the vehicles. The test cell is subjected to extreme temperatures and the engineer needs a rugged and accurate tire pressure gauge for the operator/technician to monitor the tire pressure whenever the tests calls for stop-pages/pauses in the procedure.

**Solution:** The customer purchased an DPG1000B60PSIG. The DPG1000B60PSIG-5 gives the customer an accurate visual indication of the tire pressure plus the ruggedness of the gauge ensures that calibration is maintained.



DPG 1000 B

Battery Powered Digital  
Pressure Gauge



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