

**OBD/RPM**

**Sensorless rpm-converter**

**Comfortable access through each car's standard OBD-plug**

**No sensor installation required !**

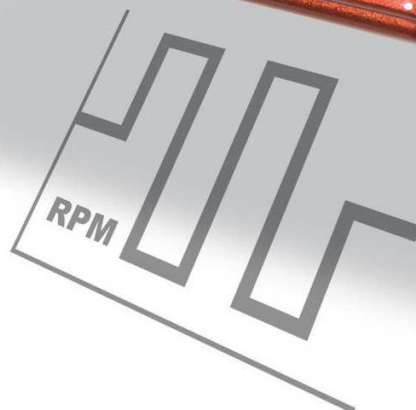
**RPM-signal available within 5 seconds !**

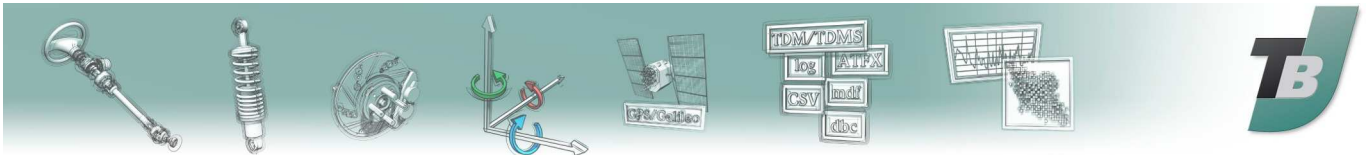
**Analogue output in mV/rpm**

**Digital output rpm / TTL-frequency**

**Online numerical and bargraph/graphical display of rpm-value**

**High accuracy**





Caused by the advancement of the higher integration of vehicle engines and aggregates, the effort to get access to the engines' rpm-signal has increased significantly!

By using the standardized car's OBD2-Plug, the new OBD-signalconverter **OBD/RPM** supports the engineer and reduces the work expended to obtain the rpm-signal nearly to zero!

Mainly known applications are the rpm-controlled orderanalysis and many different measurements in conjunction with the engine-rpm at the research department of carfactories and their suppliers i

The OBD-standard is described in the ISO15765. Since the end of 2009, all carmanufacturers that are selling at the European market have to fulfill this OBD-standard. Therefore it is very comfortable to use this interface to get access to different sensorvalues, for example the engines' rpm. After a 5 second synchronisation period, the **OBD/RPM** supplies the rpm-signal at an analogueoutput and simultaneously at a TTL-output.

The scalings of both outputs are displayed simultaneously to the signal-output. So it is easy for subsystems to scale them to the rpm-signal.

### **How to use?**

- \* Connect the OBD-cable to the vehicle's OBD-plug.
- \* **OBD/RPM** checks the compatibility of the car to the OBD2-standard regarding ISO15765
- \* Sync-time ist approx. 5 seconds
- \* Immediately after the synchronisation the rpm-signal is available at the 2 outputs

### **Specifications:**

- \* Update rate rpm: 20 Hz (differs depending on the car!)
- \* rpm max: 8000 rpm
- \* Scaling TTL-output: rpm = 1 cycle/rpm
- \* Scaling analogue-output: 1 rpm = 0.305 mV
- \* Accuracy: < +/- 0.8 % of full scale
- \* Powersupply: Through OBD-plug +8 > +24V DC
- \* Temperature range: -20°C to +75°C