







The small and handy obd.RPM/V is capable of accessing vehicle engine speed and velocity using the ISO 15765/4 standardised diagnostic protocol. The device is certified for EURO-6 vehicles that utilise the WWH-OBD (ISO 27145) diagnostic protocol. Over 100 obd.RPM/V have been sold to date and one of the reasons for this is the ease of installation and the fact that the required information is delivered within 5 seconds of connecting to the OBD-II.In its newest iteration, obd.RPM/V delivers data not only in the form of analog but also digital signal sources to the CAN-BUS. Therefore, it is possible for the device to deliver chains of CAN-measurement for engine speed and vehicle velocity. Using the integrated display with background lighting, the desired information is shown as means of controlling the measurement.

Applications:

- Driving performance measurement
- Homologation
- Consumption & exhaust gas measurement
- Driver Assistance Systems development
- Acoustic measurements

Technical Specification:

- High-end anodized aluminium casing
- Automatic OBD-Protocol and BUS identification
- OBD-Sumquery with max. 500Hz (Vehicle dependent)
- Two Analog outputs (TTL/Analog)
- Selectable sampling cycle 1-256 for selected OBD-Sensor values
- CAN-output via 9-pole Sub-D with Vector Informatic
- Power supply +7 to + 36 Volt DC
- Operating temperature range -20°C to +70°C



System Specification:

• Internal sample rate: 600 Hz

• Accuracy: +/- 0.8%

• Supply voltage via OBDII connector: +8 > +32V DC

• Temperature operating range: -20°C to +70°C

• Output impedance: 100 Ohm, < 0.4 V = Low / > 2.4 V = Hi

RPM Output Specification:

• OBDII signal refresh rate: 20 Hz (depending on vehicle ECU)

• Max. engine speed: 16 000 rpm

• TTL output scaling: 1 pulse/rev (1000 U/Min = 16.66 Hz)

• Accuracy: +/- 0.8%

• Output level: < 0.4 V = Low / > 2.4 V = Hi

Velocity Output Specification:

• OBDII signal refresh rate: 20 Hz (depending on vehicle ECU)

• Max. vehicle speed: 255 km/h

• TTL output scaling: 4.08 KHz TTL = 255 Km/h, = 16 Hz/km/h

• Dynamic accuracy: < +/- 1 km/h

Installation:

- Insert the OBD plug into the OBDII-socket of the vehicle.
- obd.RPM/V tests the connection to the vehicle and the compatibility to ISO15765.
- Sync time is approx. 5 seconds.

With compatible standard ISO 15765 OBDII protocol, the converted RPM signal and vehicle speed signal are immediately available at both BNC-sockets and CAN output.



OBD-II / Power # D-Sub 9 Pin # Female



1 • CAN-L

2 • | -

3 • CAN-H

4 • | GND

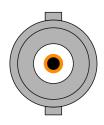
5 GND VCC

6 • V

8 • | -

9 • -

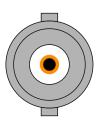
BNC 1 # BNC-Jack



1 • | Signal Output

2 O TTL-GND

BNC 2 # BNC-Jack



1 • Signal Output

2 ○ TTL-GND



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