DUETTO engineering
STEFAN ROMAN MÜLLER

MEASURING SOLUTIONS

OBD/RPM/V

OBD signal converter RPM and KPH

Signal Converter for OBD2 (ISO 15765/4)

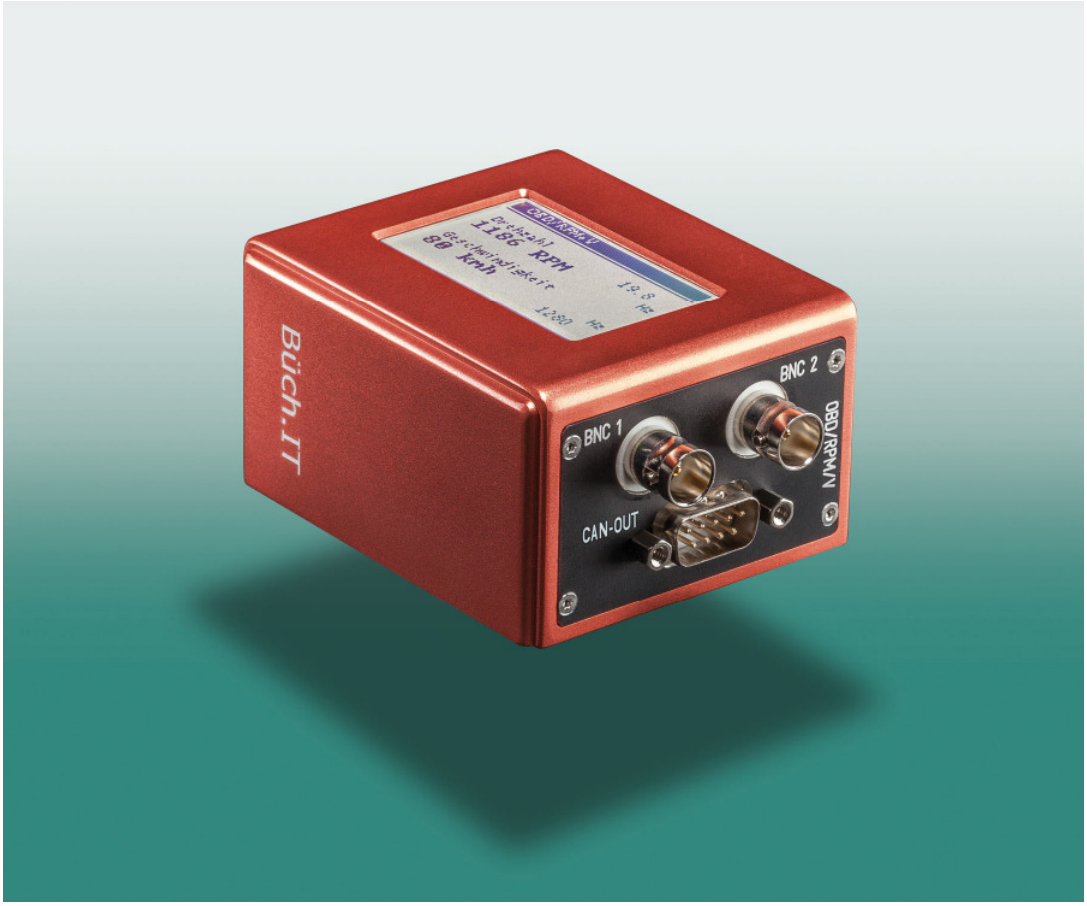
Signal Converter for WWH OBD2 (ISO 27145 for EURO-VI)

TTL Output for engine RPM

TTL Output for vehicle Speed

CAN Output

Numerical and graphical display



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Accessing vehicle engine speed (RPM) and vehicle speed (KPH) usually requires a time consuming installation of sensors, cabling and electronics.

The new **OBD/RPM/V** professional OBDII signal converter assists the engineer by using the standard OBD2-socket. Engine speed and vehicle speed can then be converted to a proportional TTL frequency and a CAN bitstream for quick and easy acquisition. The signals are immediately available via two BNC-sockets and a 9pole D-sub.

Automotive applications for the **OBD/RPM/V** include acoustic measurements (noise bypass), order analysis, control functions for dynamometers and exhaust gas test benches and any test requiring vehicle speed and/or RPM.

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 update 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

Vehicle Output Specification:

* OBDII signal update 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
* CAN Output:	acc. baudrate

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.

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