



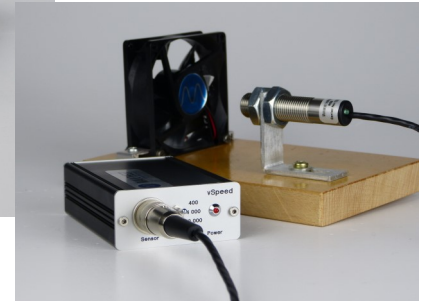
vSpeedBox

- **Speed Detection**
- **LED Sensor**
- **DC Voltage Output**
- **Accuracy $\leq 0.25\%$**
- **TTL Output**
- **Speed Ranges**
400 RPM
4000 RPM
40000 RPM
- **Overload Indicator**

Tachometer with DC voltage and TTL output

In many experimental investigations and measurements it is necessary to record the speed precisely. In particular, the recording is absolutely necessary for the representation of speed-dependent waterfalls or speed-dependent measured variables (e.g. order analysis).

The vSpeedBox makes it possible to save the speed information with a normal measuring channel without special tacho inputs. For this purpose, the speed values are measured with high accuracy with the vSpeedBox and output as DC voltage. This DC voltage can be recorded by any measuring system with a DC channel.



At the same time, the impulses coming from the LED sensor are output to a TTL output.

To ensure maximum accuracy, three speed ranges can be set on the box:

- 400 RPM
- 4000 RPM
- 40000 RPM

The respective measuring ranges are output with a resolution of 4000 steps. If the set measuring range is exceeded, the operating display LED starts to flash.

The vSpeedBox system consists of two components:

- LED-Sensor
- Controller



For the acquisition of the speed impulses we also supply an optical sensor, which is adapted according to the test setup.



Technical specifications:

Sensor	M16 x 1,5 with angle bracket
Measuring principle	LED red, visible
Measuring distance	Max. 1000 mm
Mark	Reflective film
Size Sensor	M16x1,5 length 74 mm
Cable length	2,4 m
Temperature range	-10° to 70° C
Size Controller	110 x71x32 mm
Measurement ranges	400 RPM = 4 Volt
	4.000 RPM = 4 Volt
	40.000 RPM = 4 Volt
Accuracy	≤ 0,25 %
TTL Output	Impulse 5 Volt
Power supply	12-24 Volt DC
Scope of delivery	LED-Sensor, Controller, Power supply

Information:

For more information or a demonstration, please contact us at the address below.