

# VDSU™ DYNAMICS SENSOR UNIT



VDSU™ is a Vehicle Dynamics Sensor Unit developed specifically for automotive purposes. The 6-degree of freedom unit itself is composed of state-of-the-art angular rate sensors (gyroscopes) and acceleration sensors. The measured data are transmitted via the built-in SAE J1939 compliant high speed CAN bus.

VDSU™ has the capability to measure the longitudinal, lateral and vertical acceleration, as well as the Yaw-rate, Roll-rate and Pitch-rate round the three axis. According to the basic configuration the measured acceleration and angular rates are sent in every 10 ms to the CAN bus in two messages. The default baud rate is 250 kBaud.

## Features

- Wide power supply range
- X, Y, Z direction acceleration measurement
- X, Y, Z axis angular rate measurement
- High frequency response high resolution
- CAN bus data transmission in 2 messages
- Configurable parameters
  - CAN ID
  - CAN repetition rate

## Applications

- Vehicle dynamics measurement
- Automotive system development
- Vehicle diagnostics
- Steer-by-wire system development

**FURTHER INFORMATION:** [WWW.INVENTURE.HU](http://WWW.INVENTURE.HU)

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