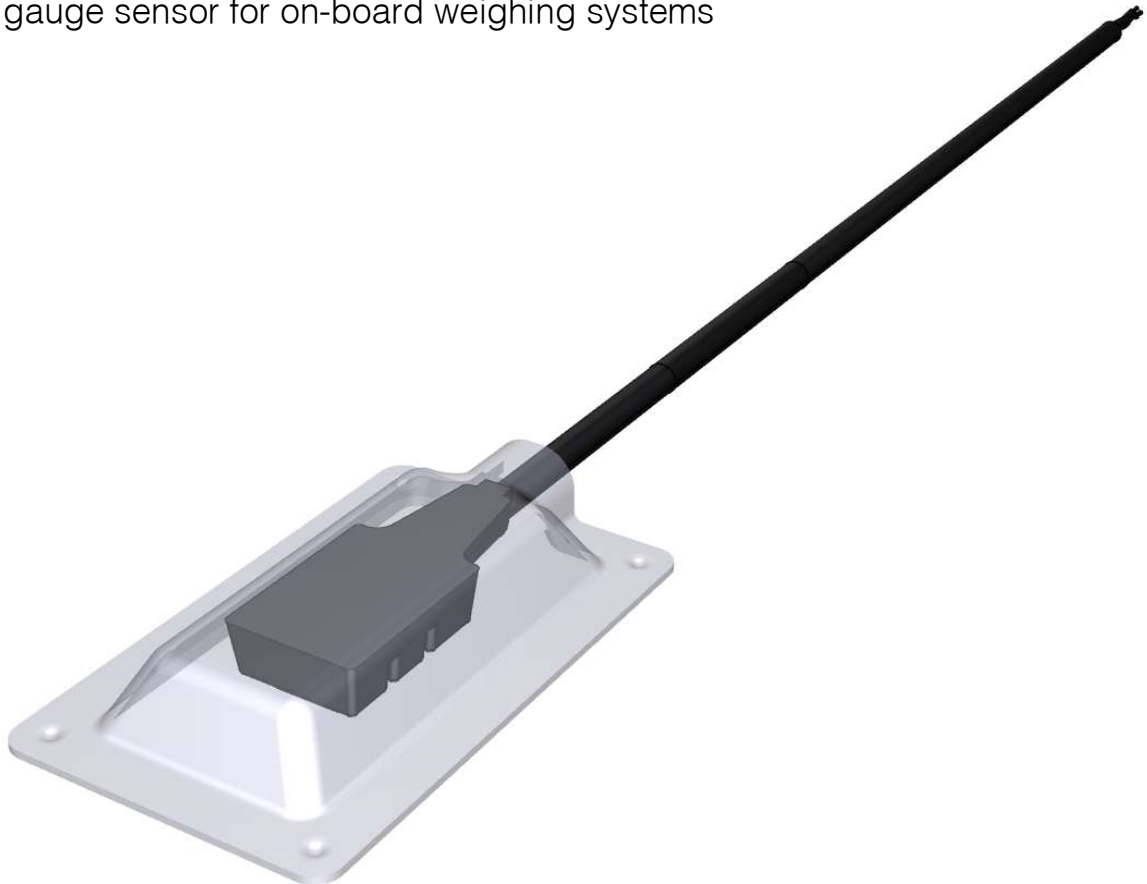


Product information VOSS OBW 501 *SG sensor*

Strain gauge sensor for on-board weighing systems

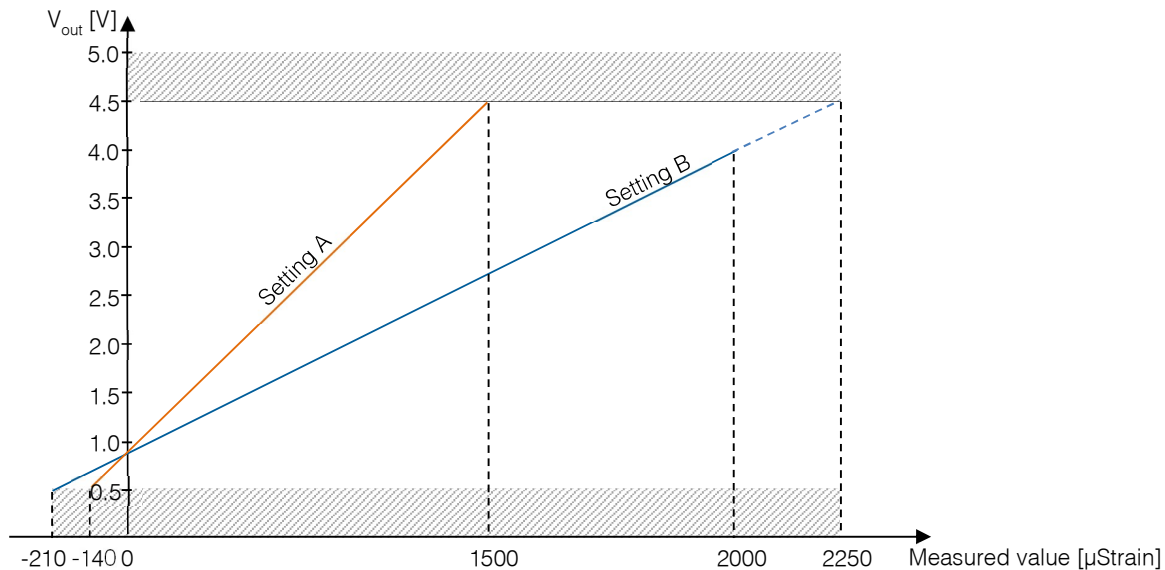


- Applicable for commercial vehicles, off-road vehicles and light duty vehicles
- Easy integration on axle – as OEM or retrofit solutions
- Real-time axle load measurement for each axle
- High sensitivity and accuracy
- High reliability and long-term stability
- Small dimensions
- 3D simulation for identifying best installation area
- Easy assembly of sensor by adhesive bonding
- Highly protected by stainless steel cover
- Additional protection of cable by corrugated tube

Axle load measurement –
at its most precise way

VOSS OBW 501 *SG sensor*

Sensor characteristics



- Measurement principle: strain gauge
- Nominal operating voltage V_{bat} : 12 V (8 V to 32 V)
- Output signal: analog 0.5 V to 4.5 V; optional PWM or OWI
- Measurement: static and dynamic
- Linear output with 2-point calibration for normal installations
- Operation temperature range: $-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$ ($-40\text{ }^{\circ}\text{F}$ to $+185\text{ }^{\circ}\text{F}$)
- Dimensions of sensor (height x width x length): 11 mm x 22 mm x 30 mm
- Dimensions of protection cover in assembled condition (height x width x length): 16 mm x 54 mm x 88 mm
- Assembly of protection cover: adhesive
- Polarity adjustment to allow using compression or strain depending on installation area
- Offset configuration to assist technician using the full output range to achieve the best measurement
- Gain adjustment with multiple steps to improve measurement based on vehicle type and size
- IP protection class (with protection cover): IPX9K
- Electrical connector at sensor: Tyco HDSCS; optional: open wire
- Wire configuration:
Pin1 / red: V_{BAT} ,
Pin2 / brown: GND,
Pin3 / white: Signal
- For further detailed system properties please contact VOSS.

