

Voltage Sense Board



The HDS Voltage Sense Board (VSB) consists of a full-featured, isolation amplifier that measures voltage readings up to 1000V DC, and provides an analog 0-5V signal output. The VSB provides isolation between signal and power for safe operation.

High CMV Isolation:	1500V RMS Continuous (\pm 2000V Peak Operation)
Low Non Linearity:	\pm 0.012% Max per IC
Low Gain Drift:	\pm 25 ppm / $^{\circ}$ C Max
High CMR:	120 dB (G = 100V/V)
Accuracy:	1%

The VSB measures a high voltage input (up to + 1000V DC), and provides a 0-5V Analog output. The VSB incorporates a wide-band amplifier, and interrupts ground loops, leakage paths, and rejects common noise that may otherwise degrade measurement accuracy. The VSB can withstand variations in the LV side bus, making it ideal for vehicle operation.

Perfect for EV, HEV, PHEV, and Testing applications, the VSB can be used as a primary or secondary voltage sense, auxiliary circuit/contactors check, or control system input. Options include multiple input voltages, power supply voltages, and output voltage scaling. AC and DC options are also available.

Voltage Sense Board – VSB -1000-12-05-1 – Specification Sheet

Physical Dimensions:	140 mm x 60 mm x 20mm
Inputs:	12Vdc, 24Vdc, and 48Vdc (other options are available) Positive and Negative leads from High Voltage Side (Up-to 1000V DC)
Output:	0-5V Analog Output Voltage (other options available)