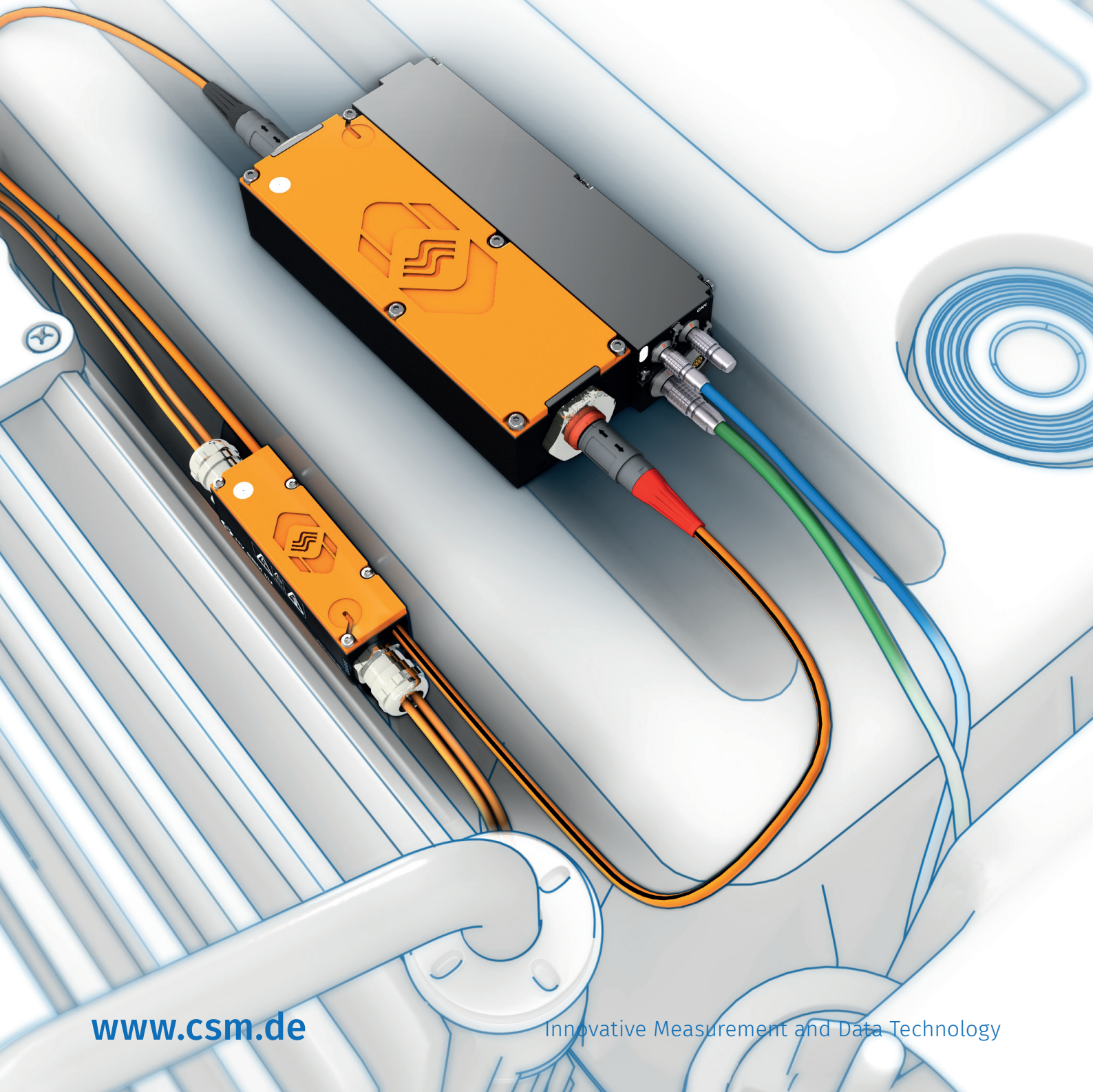


HV BM Split - Fitting everywhere

Current, voltage and power measurement in confined spaces



HV BM Split - Fitting everywhere

Current, voltage and power measurement in confined spaces

Do you know this:

Many measurement points are to be acquired simultaneously during drive testing, but there is less and less space for the measurement technology?

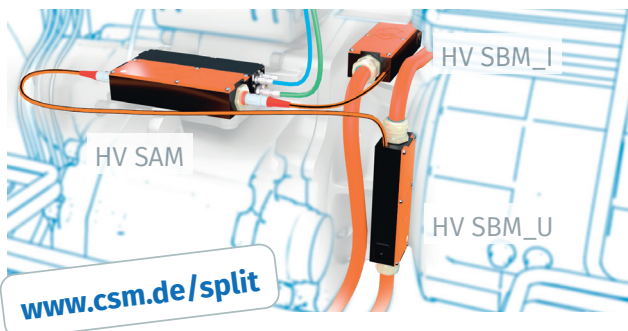
Power measurements in HV power cables are particularly challenging, as the values have to be measured directly in the HV electrical system. However, the installation spaces for the measurement technology are becoming smaller and smaller or are closed off.

At the same time, the measurement technology should have high sampling rates and the lowest possible susceptibility to interference in order to enable accurate analyses.

With the HV BM Split Modules, CSM has the solution for exactly such applications.

The HV BM Split Modules use the proven technology of the HV Breakout Modules and consist of sensors and measurement module, which are connected via shielded cables. Thus, valuable space is saved at the measurement point and precise, HV-safe measurement of current and voltage with flexible arrangement of the measurement technology become viable.

This is how performance analysis can be carried out in test vehicles in the most confined spaces.



Highlights

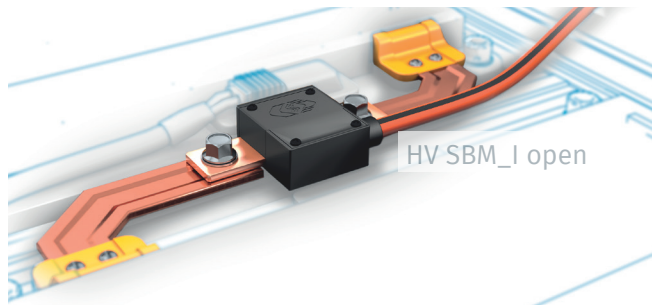
HV SBM (HV Split Breakout Module)

- ▶ Voltage measurement up to $\pm 1,000$ V ($\pm 2,000$ V peaks)
- ▶ Current measurement up to $\pm 1,000$ A nominal ($\pm 2,000$ A peaks)
- ▶ Cable connection via ring terminals
- ▶ Also available as shunt module **HV SBM_I open** for measurements in busbars

HV SAM (HV Split Acquisition Module)

- ▶ Measurement module with one signal input each for current and voltage
- ▶ Communication via EtherCAT® and CAN
- ▶ 1 MHz sampling rate per channel

Reduced space requirement for installation at the measurement point due to separate sensors and measurement module



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05.02.2024