Technical article

THE BEGINNINGS OF E-MOBILITY AT PREH

Preh took its first steps in electromobility in 2008. By 2015, a pioneering role in developing battery management control units could be achieved - in cars and trucks as well as the off-road sector. For battery management, Preh has developed a new Battery Control Unit (BMU) combining an extremely precise current sensor (available in "standard" and "high- precision" versions) with a control unit and additional components. Both the current sensor and control unit can be used separately. The current sensor manufactured in accordance with ASIL C specifications applies in the "high-precision" version as a benchmark in terms of measurement accuracy.

Thus, the remaining vehicle range with battery drives (regardless of whether they are cars or commercial vehicles) are four times more precise than with other systems. After more than ten years of use, the current sensor, initially calibrated to 0.1 percent, still has a measurement accuracy of 0.35 percent.

Preh offers its battery management systems in 48- and high-volt variants. For example, the customer BMW relies on battery management innovations from Preh in its i3 and i8 models.