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Press Release

CBN40x – New Isolating Measurement Probes by ETAS

The ETAS CBN400 and CBN401 isolating measurement probes are used to measure voltages on high voltage electrical systems used in hybrid or electric vehicles. The probes offer a high level of operational safety due to electrical isolation near the measuring point. Combined with the versatile ES411 measurement module, it is a flexible measurement instrument for high-voltage applications and suitable for use in vehicles.

The seamless integration of the probes with the ETAS ES400 measurement system and ETAS INCA offers an efficient solution for measuring voltages during calibration and validation of electrical drive ECUs.

Thanks to the integrated electrical isolation, the probes ensure that no hazardous voltage is applied on the line to the measurement module. The isolating probes are insensitive against transient voltages generated by loads on the high-voltage on-board power supply. The probes measure voltages up to 1000 V (CBN400) and differential voltages of up to 10 V (CBN401), respectively, on potentials of up to 1000 V.

Typical applications for example are the measurement of voltages on the traction battery, on individual cells of the traction battery, or on intermediate circuits. For instance, voltage measurements can determine the battery charge condition, the battery behavior under load, oscillations in the high-voltage on-board power supply or the targeted discharge of the battery in safety-critical situations independently of the ECU.

Additional information is provided at www.etas.com/CBN40x

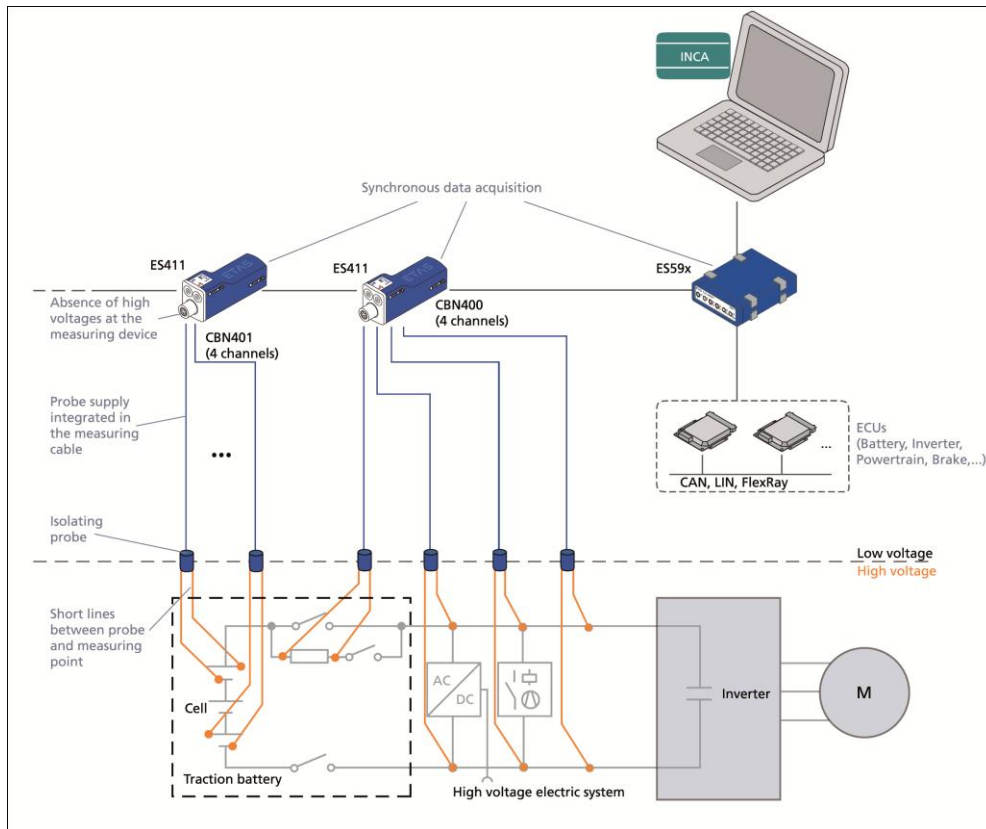


Photo: Recording voltages on the high-voltage electrical system and the traction battery using isolating measurement probes. The voltages are measured synchronously to the ECU signals of the electric drive using INCA.