

Insulation monitoring for DC charging stations with extended temperature range from -40 to +70 °C

DC charging stations are the first choice when electric vehicles need to be recharged within a very short time. If charging stations are installed in geographical locations with higher ambient temperatures, the electronics must be able to withstand these temperatures and function without any faults. The insulation monitor RN 5897/320 of the VARIMETER IMD family from DOLD is used especially for DC charging stations according to the IEC/EN 61851-23 standard and is suitable for temperatures from -40 to +70 °C.

It takes over the monitoring during the charging process from the charging station into the vehicle. Characteristic features of the device are the extended temperature range and the short response delay of ≤ 1 s. In combination with the coupling devices RL 5898 and RP 5898, the insulation monitor is suitable for monitoring with rated voltages up to DC 500 V or DC 1000 V. The integrated voltage measurement ensures a reliable determination of the insulation resistance in the IT system. The insulation monitor also has a self-test function. This takes place automatically after power-on and after every full hour of operation.

In addition to monitoring DC charging stations, the insulation monitor RN 5897/320 can also be used for monitoring unearthed AC, DC, AC/DC mains, UPS systems, mains with frequency converters or DC drives, battery mains and mobile power generators.



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Kontaktadresse zur Veröffentlichung
Contact address for publication
Nous contacter avant publication, s.v.p.

E.DOLD & Söhne KG
Postfach 1251
78114 Furtwangen

Tel.+49 (0)7723/654-0, Fax -356
E-mail: dold-relays@dold.com
Website: www.dold.com
Ansprechpartner: Bastian Beha