

Safety instructions for HV thermo modules

Please observe the following instructions to avoid hazards when handling electrical equipment.

1. Observe all technical and legal regulations when handling high-voltage systems (DIN, VDE).
2. The device may only be put into operation and used by a qualified electrician in accordance with BGV A3 or a corresponding country-specific regulation.
3. *M-THERMO2 HV* is a thermocouple measuring module for measuring temperatures in high-voltage battery systems (DC circuits). It is **not suitable** for measurements on frequency inverters, motor circuits or other AC voltage sources with high $\Delta U / \Delta t$.
4. For temperature measurements on HV potential, the housing of the *M-THERMO2 HV* / *M-THERMO2 HV multi plug* **must be** conductively connected to the vehicle chassis or a suitable earth point via mounting brackets (e.g. MOD-M-TH2-HWI-1). This measure serves to dissipate leakage, creeping and capacitive leakage current.
5. *M-THERMO2 HV* **must always be** operated with the corresponding tested cables. Damaged cables **must be replaced immediately** to avoid danger to persons and equipment.
6. The ground connection must not be connected to a point in the high voltage system
7. If *M-THERMO2 HV*, housing, cable or connector
 - has come into contact with conductive materials or
 - is otherwise dirty or
 - mechanically damaged,

this can lead to a reduction in the tracking resistance and thus to **dangerous leakage currents**. In such a case, the affected device or part **must be taken out of operation immediately** and disconnected from the high-voltage source in accordance with the relevant safety regulations.
8. The device or part may only be put back into operation after
 - it is cleaned and dried
 - damaged parts have been replaced

and subsequent assessment and testing by a qualified electrician.
9. Under no circumstances may the modules and cables be repaired or modified in any way!
10. The module must be operated with the supplied brackets and a connected ground terminal.



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