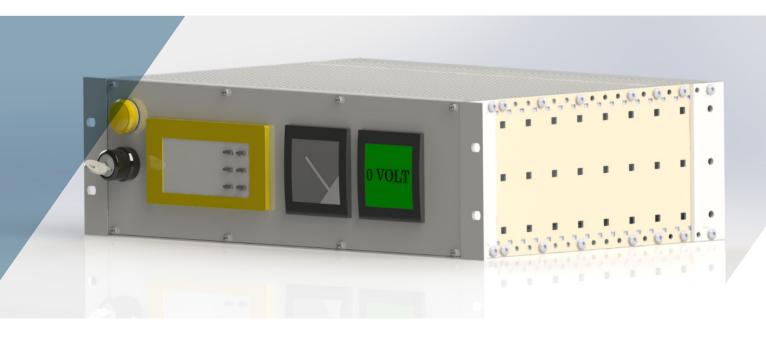
bertrandt



PRODUCT DATA SHEET

Bertrandt HV Safety Guard — High-Voltage Safety Monitoring

THE CHALLENGE

Electrified powertrains are the key to designing the type of future mobility that will protect the climate and conserve resources. For this purpose, we develop tailor-made, state-of-the-art testing systems for our customers. One of the decisive aspects is to ensure that these machines and systems are functionally safe.

THE SOLUTION

With its HV safety monitoring system, the Testing Systems team provides a turnkey and compact solution for the monitoring of insulation resistance and the redundant monitoring of safety extra-low voltage (SELV) for DC voltages up to performance level e according to IEC/EN 61508.

TECHNICAL FEATURES

- Monitoring of high voltages up to 1,500 V DC
- Insulation monitoring (optional: can also be temporarily deactivated using a key switch)
- Redundant monitoring of high voltages up to 1,500 V DC
- Safety-related control through the use of a safety PLC (B&R)
 - > Monitoring of DUT
 - > Release of power supplies (interlock)tion
- Automated activation / deactivation and monitoring of door locking and access control systems
- Digital and analog voltmeter with color coding for safety extra-low voltage limit (< 50 V = green / > 50 V = red)
- Compact design due to integration into 19" rack
- LAN interface
- From QIII/2021: user-friendly 10" touch display
- From /2021: event & alarm logging
- From QIII/2021: USB service interface for diagnosis
- Optional: switchable discharge circuit for intermediate electric circuits (external)