

# NovaCarts HV test adapter

Extensive insulation fault simulation for verifying HV batteries for electric and hybrid vehicles on the real vehicle – from prototype to production vehicle

## Features

- » Insulation fault simulation on the real vehicle (HV+ to KL30, HV- to KL30, HV+ to KL31, HV- to KL31, HV+ to HV-)
- » HV test adapter withstands real battery current between battery and traction circuit in the vehicle
- » Current and voltage measurement in the intermediate circuit (battery side, load side and external supply)
- » Checking the insulation resistance (active voltage measurement by Burster-ISO)
- » Manipulation of the vehicle pilot line (short circuit, open rail, adjustable impedance through resistance decade, feedback measurement of currently set impedance)
- » CAN bus fault switching possible (short circuit, disconnection, reverse polarity, connection to Ubatt+ or Ubatt-, termination manipulation)
- » CAN and CAN-FD compatibility
- » Integrated protection mechanisms for operator and system (service disconnect, emergency stop, HV contactor interlock, interlock against short circuit in case of operating errors)
- » Visual display of voltages >50V (no influence on the vehicle insulation monitor)
- » Entire system including vehicle earthed via earthing pole terminals
- » External control of the ignition start button
- » Option: Interface to test stand automation system
- » Operation of brake actuator
- » Vehicle terminals feedback measurement (KL30, KL15)
- » External power supply 0-70V, control via HV test adapter
- » Various potential-free relay contacts for customer-specific applications
- » Networking module for distribution of data buses with integrated OBD interface



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