

Insulation monitoring for hybrid and electric vehicles

ISOMETER® iso165C

- Active measurement method
- E1 approval
- CAN bus interface
- Detection of symmetrical and unsymmetrical faults
- 12 V supply voltage
- Automatic adaptation to the system leakage capacitance



Further product features of the iso165C

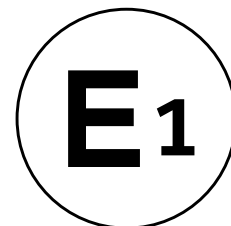
- Insulation monitoring of AC and DC insulation faults for unearthed systems (IT systems) from 0 V...600 V peak
- Continuous measurement of the insulation resistance from 0 Ω...50 MΩ
- Response time of ≤ 20 s for measured insulation resistance (using Direct Current Pulse)
- Detection of ground faults and lost ground line
- Measurement of a second voltage
- Galvanic separation of all signals from the HV side



Bender eMobility solutions:

Standard-compliant solutions from the charging station to the electric vehicle

- Vehicle sensors (insulation monitoring)
 - connection kit
- Charging technology/Charge controller
- Infrastructure sensors for AC and DC charging



Response range	Nominal voltage DC	Output driver	CAN termination	Baud rate	Type	Art. No.
Alarm 1 (warning): 30 kΩ...1 MΩ (default: 300 kΩ); Alarm 2 (fault): 40 kΩ...2 MΩ (default: 55 kΩ)	0...600 V	--	124 Ω internally	250 kBaud	iso165C	B91068175
Alarm 1 (warning): 30 kΩ...1 MΩ (default: 400 kΩ); Alarm 2 (fault): 40 kΩ...2 MΩ (default: 250 kΩ)	0...600 V	✓	--	500 kBaud	iso165C-1	B91068176