

HIGH VOLTAGE MODULES WITH CAN

MULTI-HV RTD



CAN HV measuring module for temperature measurements with RTD sensors in the vehicle, on the test bench or in the laboratory

Features

- 2 inputs - 4 channels
- High-precision measuring through four-wire measurement
- 1.500 V DC reinforced galvanical isolation
- HV test according to DIN EN 61010:2010
- Autorange function
- Dynamic sample rate
- Automatic DBC generation
- CAN 2.0 A/B-Interface



Version

- 2 Inputs - 2 channels per input (Redel 2P)
- Aluminium housing 62/120/40 mm (L/B/H)
- Protection class IP65
- Temperature Range -40°C to +85°C (-40°F to 185°F)
- Supply Voltage 7 V to 60 V DC

Suitable sensors

Temperature

2 x HV PT100/PT1000 resistance thermometers

For detailed technical information please refer to the data sheet „KLARI-PROBES“



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Applications

- Voltage measurements in the HV electrical systems, HV batteries
- Temperature measurement in HV components or batteries with RTDs

Accessories

- HV-PT100/1000 Sensors
- KLARI-CHARGE2 supply module
- CAN cable harness with power supply
- DAkKS calibration

Scope of delivery

- Measuring module MULTI-HV RTD
- Factory calibration certificate (DAkKS optional)
- HV test protocol according to DIN EN 61010:2010
- DBC file and documentation

Technical data

Inputs	2 Inputs - 4 Channels
Capabilities	HV-PT Sensors
Resolution	16 Bit ADC with 5 Measurement Ranges
Sample Rate	0,25 Hz to 8 kHz per channel configurable, dynamic sampling speed trigger
Measurement Ranges	±9 mV, ±27 mV, ±42 mV, ±210 mV, +1050 / -240 mV 0,3 µV, 0,9 µV, 1,4 µV, 7 µV, 35 µV Resolution Depending on temperature sensor (see specification)
Accuracy	± 0,1 % reading ± 3 Bit of the actual measurement range at 23°C ± 5°C ± 1 % reading ± 3 Bit of the actual measurement range -40°C to +80°C Measurement Modules + Klari-Probes in a chain
CAN	CAN 2.0 A/B-Interface 125k, 250k, 500k, 1000k Baud configurable internal CAN termination via Software switchable CAN Base ID configurable
Configuration via	CAN
Voltage Supply Range	7 V to 60 V
Power Consumption	typ. 1 W
Temperature Range	-40°C to 85°C (-40°F to 185°F)
HV insulation check	at least every 12 months
Calibration	12 months