

HIGH VOLTAGE MODULE WITH CAN

MULTI-HV THERM



HV measuring module for Temperature measurements with thermocouples in the vehicle, test bench or in the laboratory.

Features

- 1 input - 4 Channel
- Cold junction compensation for each channel
- 1.500 V DC reinforced galvanical isolation
- HV test according to DIN EN 61010:2010
- Autorange Function
- Dynamic sample rate
- CAN 2.0 A/B-Interface



Version

- 1 Input - 4 channel
- 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 measurement
HV-4T-R2P-Probe (Thermocouple Type K)

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 batte-

Scope of delivery

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

Accessories

- HV-Thermocouple
- CAN cable harness with power supply

Technical data

Inputs	1 Input - 4 Channel
Capabilities	HV-Thermocouple Type K
Cold Junction Compensation	for each channel separate
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 0,4 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 bis +80°C Measurement Modules + Klari-Probes in a chain
CAN	125k, 250k, 500k, 1000k Baud configurable internal CAN termination via Software switchable CAN Base ID configurable
Configuration via	CAN
Voltage Supply Range	7 V - 60 V
Power Consumption	typ. 2 W
Temperature Range	-40°C to 85°C (-40°F to 185°F)
HV Insulation check	at least 12 months
Calibration	12 months