

## KLARI-THERM HV 1500V



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

### Features

- 4 Channel
- 1.500 V galvanical isolation
- Autorange Function
- Dynamic sample rate
- Automatic DBC/A2L generation
- 2 independent 1 Mbaud CAN-Interfaces

### Version

- 1 Inputs - 4 channel input (Redel 2P)
- 4 Inputs - 1 channel per input (Redel 2P)
- Aluminium housing 96/170/54 mm (L/B/H)
- Protection class IP65
- Temperature Range -40...+85°C
- Supply Voltage 7..60 V DC

### Application

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

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### Accessories

- HV-Thermocouple
- CAN cable harness with power supply

### Scope of delivery

- Measuring module
- Factory calibration certificate (DAkkS optional)
- HV test protocol
- A2L/DBC files and documentation

### Technical data

|                                   |   |
|-----------------------------------|---|
| <b>Inputs</b>                     | 1 or 4 Inputs<br>4 Channel  |
| <b>Capabilities</b>               | HV-Thermocouple Type K  |
| <b>Cold Junction Compensation</b> | for each channel separate   |
| <b>Resolution</b>                 | 16 Bit ADC with 5 Measurement Ranges  |
| <b>Sample Rate</b>                | 0,25 Hz to 8 kHz per channel configurable, dynamic sampling speed trigger   |
| <b>Measurement Ranges</b>         | ±9 mV, ±27 mV, ±42 mV, ±210 mV, +1050 / -240 mV<br>0,3 μV, 0,9 μV, 1,4 μV, 7 μV, 35 μV Resolution   |
| <b>Accuracy</b>                   | ± 0,1 % reading ± 3 Bit of the actual measurement range at 23°C ± 5°C<br>± 1 % reading ± 3 Bit of the actual measurement range -40°C bis +80°C<br>Measurement Modules + Klari-Probes in a chain |
| <b>CAN</b>                        | 125k, 250k, 500k, 1000k Baud configurable<br>internal CAN termination via Software swichtable<br>CAN Base ID configurable   |
| <b>Configuration via</b>          | CAN<br>USB (virtual COM Port)   |
| <b>Voltage Supply Range</b>       | 7-60 V  |
| <b>Power Consumption</b>          | typ. 2 W  |