

KLARI-PT HV 1500V



Applications

- Temperature measurements with PT100/1000 sensors in Electric and Hybrid Systems
- Battery testing

Features

- 4 Channel PT100/1000 Temperature measuring Module
- 4-wire measurement
- Radiometric measurement
- Reinforced isolation up to 1500 V DC between each input and outputs
- Two CAN Interfaces
- Optional Ethernet (XCP-on-Ethernet or KlaricServer)
- Digital Filters
- Dynamic Sample speed

Measurement capabilities

- Use in laboratory as well as in vehicle
- Measuring Temperature on high potentials

Versions

- protection class IP65
- temperature range -40...+85°
- supply 6...60 V DC
- a detailed technical description is contained in our catalogue or technical data sheet

Accessories

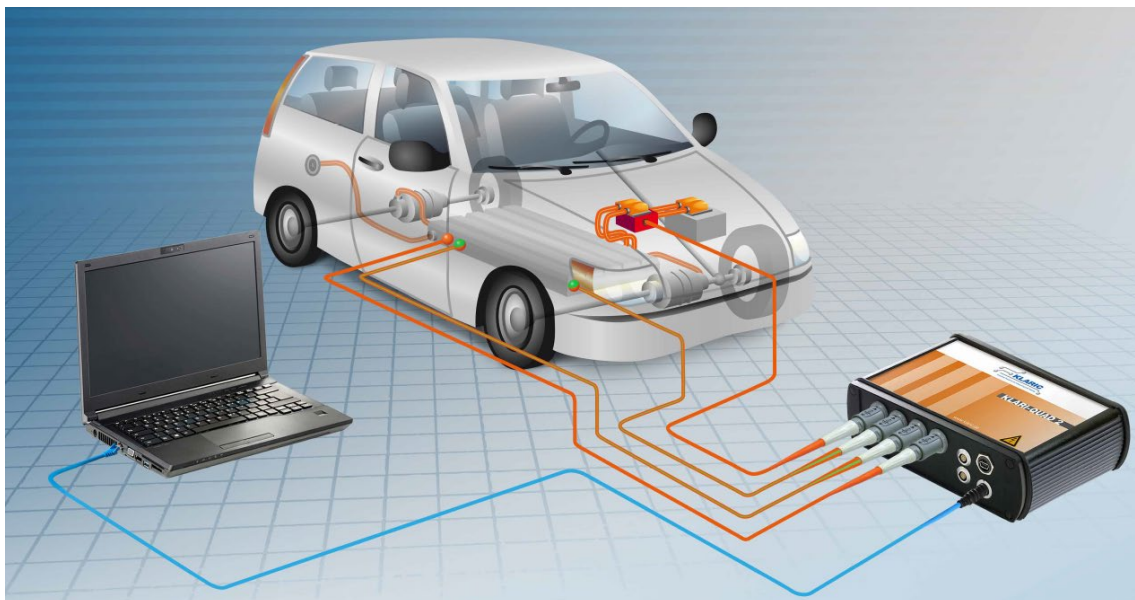
- cable harness IP65

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Input	<ul style="list-style-type: none"> • 4 HV PT100/1000 																		
Resolution	<ul style="list-style-type: none"> • 5 measuring ranges with selectable auto range function • ± 15-bit measuring range <table border="1"> <thead> <tr> <th>Gain</th> <th>Range</th> <th>Resolution</th> </tr> </thead> <tbody> <tr> <td>100</td> <td>+/- 9 mV</td> <td>0,3 μV/Bit</td> </tr> <tr> <td>40</td> <td>+/- 27 mV</td> <td>0,9 μV/Bit</td> </tr> <tr> <td>25</td> <td>+/- 42 mV</td> <td>1,4 μV/Bit</td> </tr> <tr> <td>5</td> <td>+/- 210 mV</td> <td>7 μV/Bit</td> </tr> <tr> <td>1</td> <td>+ 1050 / - 240 mV</td> <td>35 μV/Bit</td> </tr> </tbody> </table>	Gain	Range	Resolution	100	+/- 9 mV	0,3 μ V/Bit	40	+/- 27 mV	0,9 μ V/Bit	25	+/- 42 mV	1,4 μ V/Bit	5	+/- 210 mV	7 μ V/Bit	1	+ 1050 / - 240 mV	35 μ V/Bit
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Accuracy	<ul style="list-style-type: none"> • $\pm 0.1\%$ of measurement value ± 3 bit of the range • valid for temperature range of - 40...+ 85°C 																		
Measuring current	<ul style="list-style-type: none"> • 250 μA (will be measured, ratio metric measurement) 																		
Sample rate	<ul style="list-style-type: none"> • maximum 8 kHz per channel 																		
Features	<ul style="list-style-type: none"> • selectable data output CAN2.0B • XCP-on-Ethernet or free Klaric-Server Software • CAN data export - parameter driven (baudrate, identifier etc.) • integrated CAN-termination, switchable via software • automatic PROBE-identification with calibration value correction 																		
Output	<ul style="list-style-type: none"> • 2 x CAN 2.0 A/B, (High-Speed CAN, ISO 11898) from 125 kBaud up to max. 1 MBaud • 100 Mbit/s Ethernet interface with XCP-on-Ethernet or free Klaric-Server Software • USB 2.0 interface 																		
Timestamp	<ul style="list-style-type: none"> • $\sim 2.5 \mu$s resolution (is included in CAN frame) 																		
Housing - Protection - Weight - Dimension	<ul style="list-style-type: none"> • potted casing • IP65 • approx. 350 g • 150/60/40 (l/w/h) 																		
Supply	<ul style="list-style-type: none"> • 6,0...50 V DC 																		
Current consumption	<ul style="list-style-type: none"> • ca. 150 mA at 12 V DC 																		
Configuration	<ul style="list-style-type: none"> • PC using CAN or USB-2.0 interface. Configurations can be created, managed and loaded via KlariToolbox into the module. • High-Speed CAN: 125 kB...1 MB • measurement type, measuring speed, channels • Ethernet 																		
Modes	<ul style="list-style-type: none"> • auto range function for all channels in all ranges individual • adjustable sample speed for each channel 																		
Isolation	<ul style="list-style-type: none"> • 1500 V DC permanent isolation: Input <> Output and Input <> Input 																		

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Application



HV-T-4PT Probe

