

HIGH VOLTAGE MODULES WITH ETHERNET

MULTI-HV UIT ETH



HV measuring module for current, voltage, power and temperature measurements in vehicles or in the laboratory.

Features

- 4 universal inputs - 8 channel
- 8 kHz sampling rate per channel
- 1.500 V DC reinforced galvanical isolation
- HV test according to DIN EN 61010:2010
- Online calculation of power data for DC and AC measurements such as work, power, frequency, RMS values, power factor
- Dynamic sample rate
- Autorange Function
- Automatic Probe identification (similar to TEDS)
- 100 Mbit/s Ethernet Interface (100 BASE-TX)
- XCP-on-Ethernet (XCP-on-TCP/IP oder XCP-on-UDP/IP)



Suitable sensors with automatic identification

Current Measurement

HV-I-Probe (BF1/ BF2/ BF3)
HV-LI-Probe
HV-Break-out-Box (HVP800/ HPK/ HVA280/ HVR90/
1PG.1PG/ 2PG.2PG/ 3PG.3PG/ customer specific)

Voltage Measurement

U-Probe (200 V / 1000 V)

Power Measurement

HV Breakout-Box
HV-HP-Probe
HV-LP-Probe

Temperature Measurement

HV-T-Probe (Thermocouple Typ K)

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

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Version

- Aluminium housing 62/120/54 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

Accessories

- Klaric HV-Measurement Adapter, HV-Break-out-Boxes
- Klaric HV-Probes
- Ethernet cable harness with/without supply

Applications

- Power measurement of power electronics
- Voltage measurements in the HV electrical systems, HV batteries
- Temperature measurement in HV components or batteries with thermocouples or RTDs

Scope of delivery

- Measurement module
- Factory calibration certificate (DAkkS optional)
- HV test protocol according to DIN EN 61010:2010
- A2L file and documentation

Technical data

Inputs	4 Inputs - 8 Channel (2 x ADCs per Input)
Capabilities	Klaric HV-Probes with automatic detection and import of the calibration values Current, Voltage, 2xVoltage, Power, HV Thermocouple Type K, HV PT100/1000 Klaric HV-Measurement Adapter
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
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
Ethernet	100 MBit/s (100 BASE-TX)
Configuration via	Ethernet
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