

HIGH VOLTAGE MODULES WITH CAN

**MULTI-HV UIT**



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)
- Automatic DBC generation
- CAN 2.0 A/B-Interface

**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“

## HIGH VOLTAGE MODULES WITH CAN

# MULTI-HV UIT



### Version

- 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

### Accessories

- Klaric HV-Measurement Adapter, HV-Break-out-Boxes
- Klaric HV-Probes
- CAN cable harness with power supply
- 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
- DBC files and documentation

### Technical data

<b>Inputs</b>	4 Inputs - 8 Channel (2 x ADCs per Input)
<b>Capabilities</b>	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
<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 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 ± 1 % reading ± 3 Bit of the actual measurement range -40°C bis +80°C Measurement Modules + Klari-Probes in a chain
<b>CAN</b>	125k, 250k, 500k, 1000k Baud configurable internal CAN termination via Software swichtable CAN Base ID configurable
<b>Configuration via</b>	CAN
<b>Voltage Supply Range</b>	7 V to 60 V
<b>Power Consumption</b>	typ. 1 W
<b>Temperature Range</b>	-40°C to +85°C (-40°F to 185°F)
<b>HV insulation check</b>	at least every 12 months