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"

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

Applications

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

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

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-Breakout Boxes
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 0,3 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
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 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