

HIGH VOLTAGE MODULE WITH CAN

MULTI-HV ANALOG



HV measuring module for Voltage measurements up to 1.000V in the vehicle, test bench or in the laboratory.

Features

- 1 Input - 4 Channel
- 8 kHz sampling rate per channel
- 1.500 V DC reinforced galvanical isolation
- HV test according to DIN EN 61010:2010
- Dynamic sample rate
- Autorange Function
- Automatic Probe identification (similar to TEDS)
- CAN 2.0 A/B-Interface



Version

- 1 Input - 4 channel input (Redel 2P)
- 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



Suitable sensors

Voltage measurement

HV 4-channel voltage measurement cable

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

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Applications

- Voltage measurements in the HV electrical systems, HV batteries
- Measurement of the output voltage of sensors in HV systems

Scope of delivery

- Measuring module MULTI-HV ANALOG
- Factory calibration certificate (DAkkS optional)
- HV test protocol according to DIN EN 61010:2010
- DBC file and documentation

Accessories

- HV-Analog Sensor
- CAN cable harness with power supply

Technical data

Inputs	1 Input - 4 Channel
Capabilities	HV-Voltages up to 1.000 V
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 200 V Version	± 6 V, ± 18 V, ± 28 V, ± 140 V, -160 / -700 V 0,2 mV, 0,6 mV, 0,9 mV, 5 mV, 24 mV Resolution
Measurement Ranges 1.000 V Version	± 45 V, ± 135 V, ± 210 V, ± 1.000 V 1,5 mV, 4,5 mV, 7 mV, 35 mV
Accuracy	$\pm 0,1$ % reading ± 3 Bit of the actual measurement range at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ ± 1 % reading ± 3 Bit of the actual measurement range -40°C bis $+80^{\circ}\text{C}$ 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 - 60 V
Power Consumption	typ. 1 W
Temperature Range	-40°C to 85°C (-40°F to 185°F)
HV Insulation check	at least 12 months
Calibration	12 months