

## 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

<b>Inputs</b>	1 Input - 4 Channel
<b>Capabilities</b>	HV-Voltages up to 1.000 V
<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 200 V Version</b>	±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
<b>Measurement Ranges 1.000 V Version</b>	±45 V, ±135 V, ±210 V, ±1.000 V 1,5 mV, 4,5 mV, 7 mV, 35 mV
<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 switchable CAN Base ID configurable
<b>Configuration via</b>	CAN
<b>Voltage Supply Range</b>	7 V - 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 12 months
<b>Calibration</b>	12 months