

HIGH VOLTAGE MODULE WITH ETHERNET

MULTI-HV ANALOG ETH



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

Features

- 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 A2L generation
- 100 Mbit/s Ethernet Interface (100 BASE-TX)
- XCP-on-Ethernet (XCP-on-TCP/IP oder XCP-on-UDP/IP)

Version

- 1 Input - 4 channel
- 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

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

Accessories

- HV-Analog Sensor cable
- Ethernet 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	± 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 - 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