

## 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

<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>	$\pm 6$ V, $\pm 18$ V, $\pm 28$ V, $\pm 140$ 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>	$\pm 45$ V, $\pm 135$ V, $\pm 210$ V, $\pm 1.000$ V 1,5 mV, 4,5 mV, 7 mV, 35 mV
<b>Accuracy</b>	$\pm 0,1$ % reading $\pm 3$ Bit of the actual measurement range at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ $\pm 1$ % reading $\pm 3$ Bit of the actual measurement range $-40^{\circ}\text{C}$ bis $+80^{\circ}\text{C}$ Measurement Modules + Klari-Probes in a chain
<b>Ethernet</b>	100 MBit/s (100 BASE-TX)
<b>Configuration via</b>	Ethernet
<b>Voltage Supply Range</b>	7 V - 60 V
<b>Power Consumption</b>	typ. 1 W
<b>Temperature Range</b>	$-40^{\circ}\text{C}$ to $85^{\circ}\text{C}$ ( $-40^{\circ}\text{F}$ to $185^{\circ}\text{F}$ )
<b>HV Insulation check</b>	at least 12 months
<b>Calibration</b>	12 months