# LOW VOLTAGE MODULES WITH ETHERNET AND CAN

KLARIC
Individual Solutions for Measuring and Testing

## KLARI-FUSE 3



Universal measuring module for various measuring tasks in the vehicle or in the laboratory.

### Features

- 8 universal Inputs
- 16 channel
- Dynamic sampling rate
- Autorange function
- Automatic Probe identification (similar to TEDS)
- Automatic DBC/A2L generation
- Galvanical isolation
- Integration of other Sensors
- Online calculation of power data for DC measurements
- 100 Mbit/s XCP-on-Ethernet or Klaric-Server
- 2 independent 1 MBaud CAN-Interfaces

### Probe-Variants

**Current measurement**

Fuse-Probes: MICRO2, MICRO3, FK1, FK2, FK3, JCASE, MCASE

High Current-Probes: BF1, BF2, BF3-Shunt

Low Current-Probes: LI

**Voltage measurement**

80V U-PROBE

**Current-/Voltage measurement**

I/U-COMBI-PROBE for simultaneous measurement of current and voltage at one connection

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

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## Version

- Aluminium housing 165/108/42 mm (L/W/H)
- Protection class IP65
- Temperature Range -40...+85°C
- Supply Voltage 7..60 V DC

## Applications

- Power measurement of power electronics in vehicles or on test benches
- Quiescent and operating current measurements
- Temperature measurements
- Measurement of analog or sensor voltages

## Accessories

- Klaric LV-Probes
- CAN cable harness with power supply
- Ethernet cable harness with/without supply

## Scope of delivery

- Measuring module
- Factory calibration certificate (DAkkS optional)
- A2L/DBC files and documentation

## Technical data

| | |
|---|---|
| **Inputs** | 8 inputs<br>16 channel (2 x ADC per input) |
| **Capabilities** | Klaric LV-Probes with automatic recognition and transfer of calibration values<br>Current<br>Voltage<br>2xVoltage<br>Combi-I/U<br>PT100/1000 |
| **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<br>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<br>± 1 % reading ± 3 Bit of the actual measurement range -40°C bis +80°C<br>Measurement Modules + Klari-Probes in a chain |
| **CAN** | 125k, 250k, 500k, 1000k Baud configurable<br>internal CAN termination via Software swichtable<br>CAN Base ID configurable |
| **Ethernet** | 100 MBit/s (XCP-on-Ethernet or KlaricServer) |
| **Configuration via** | Ethernet<br>CAN<br>USB (virtual COM Port) |
| **Power Consumption** | typ. 1,5 W |
| **Temperature Range** | -40°C to 85°C |
| **Calibration** | 12 months |