

MULTI-4



CAN measuring module for measuring quiescent, operating and peak currents as well as voltage and temperature with KLARI-PROBES

Features

- 4 universal inputs - 8 channel
- 8 kHz sampling rate per channel
- galvanical isolation between all inputs
- online Ah calculation (optional)
- Dynamic sample rate
- Autor Range Function
- Galvanic isolation of all inputs
- Automatic Probe identification (similar to TEDS)
- Automatic DBC generation
- CAN 2.0 A/B-Interface

Options configurable via software

- Basic:
simplest application
- Dynamic Sampling Rate:
Module supports measurement speed switching for quiescent current measurement
- Charge balance:
Current measurements can be integrated to Ah and output on CAN

Version

- Aluminum housing 62 x 120 x 40 mm (l/w/h)
- Stackable housing optional (CLICK Version)
- Protection class IP65
- Temperature range -40°C to +85°C
- Supply 7 V to 60 V DC



Applications

- Power measurement of power electronics in the vehicle or on test benches
- Measurement of quiescent and operating currents
- Temperature measurements

Scope of delivery

- Measuring module MULTI-4
- Factory calibration certificate (DAkkS optional)
- DBC

Accessories

- Wiring harness with supply for CAN
- KLARI-PROBES

Suitable sensors

Current measurement

FUSE-Probe (Micro/ Mini/ ATO/ MAXI/ MCASE/ JCASE)
 HI-Probe (BF1/ BF2/ BF3)
 LI-Probe

Voltage measurement

U-Probe (80V)

Power measurement (optional)

HP-Probe
 LP Probe

Temperature

T-Probe (PT100/PT1000)

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

Technical data

Inputs	4 Measurement inputs (8 channel)
Capabilities	Klaric Probes with automatic recognition and acceptance of calibration values Current, voltage, temperature an optional power
Resolution	16 bit ADC with 5 measuring ranges
Sample Rate	0,25 Hz bis 8 kHz configurable per channel
Measurement Ranges	± 9 mV, ± 27 mV, ± 42 mV, ± 210 mV, $+1050 / -240$ mV $0,3$ μ V, $0,9$ μ V, $1,4$ μ V, 7 μ V, 35 μ V Resolution
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
CAN	125k, 250k, 500k, 1000k Baud configurable Internal CAN termination can be activated via software CAN base ID configurable
Configuration via	CAN
Voltage Supply Range	7 V to 60 V
Power Consumption	typ. 1,5 W
Temperature Range	-40°C to 85°C