

## LOW VOLTAGE MODULES WITH CAN

# KLARI-MOD MC5



Measuring module optimized for long-term measurement of quiescent and operating current, voltage and power measurement. Sending of the data via CAN.

### Features

- 4 inputs
- 1 x MS3-Input (3 x voltage, 1 x temperature)
- 8 channels
- pluggable USB-Drive for logging function
- Dynamic sampling rate
- Autorange function
- Automatic Probe identification (similar to TEDS)
- Galvanical isolation
- Online calculation of charge/discharge and total balance
- independent 1 Mbaud CAN-Interfaces

### Version

- with Display
- without Display
- Aluminium housing 147/110/35 mm (L/W/H)
- Protection class IP65
- Temperature Range -40°C to +85°C (-40°F to 185°F)
- Temperature Range with Display -20°C to +70°C (-4°F to 158°F)
- Supply Voltage 7 V - 60 V DC

### 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

HP-Probe  
 LP Probe

#### Temperature measurement

T-Probe (PT100/PT1000)

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

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### Applications

- Long-term fleet measurements
- Power measurement of power electronics in vehicles or on test benches
- Quiescent and operating current measurements

### Accessories

- KLARI-CHARGE2 supply module
- CAN cable harness with power supply
- DAkkS calibration

### Scope of delivery

- measuring module KLARI-MOD MC 5
- CAN-On supply cable / 1m (Digital-Input)
- USB connection cable
- Factory calibration certificate
- DBC files and documentation

### Technical data

<b>Inputs</b>	4 Inputs 8 Channel
<b>Capabilities</b>	Klaric LV-Probes with automatic recognition and transfer of calibration values Current Voltage PT100/1000
<b>Resolution</b>	Gain 1 (24µV), Gain 6 (4 µV), Gain 24 (1 µV), Gain 50 (500 nV), Gain 100 (250 nV)
<b>Sample Rate</b>	max. 8 kHz per channel, channels individually adjustable
<b>Measurement Ranges</b>	5 measuring ranges with auto-range function Gain 1 (-300mV / +720 mV), Gain 6 (+ -120mV), Gain 24 (+ - 30mV), Gain 50 (+ - 15mV), Gain 100 (+ - 7 , 5mV)
<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 to +80°C Measurement Modules + Klari-Probes in a chain
<b>CAN</b>	125k, 250k, 500k, 1000k Baud configurable internal CAN termination via Software swichtable CAN Base ID configurable
<b>Configuration via</b>	Mini-USB, CAN (individually adjustable CAN ID for each channel)
<b>Voltage Supply Range</b>	5 V - 60 V
<b>Power Consumption</b>	typ. 0,5 - 1 W
<b>Temperature Range</b>	-40°C to 85°C (-40°F to 185°F) -20°C to 70°C (-4°F to 158°F)
<b>Calibration</b>	12 months