

## HIGH VOLTAGE SYSTEMS

# EV CHARGE-MONITOR



EV CHARGE-MONITOR for measuring between the mains and the charging station or between the charging station and the (PH) EV.

### Versions

- CHARGE-MONITOR LAB
- CHARGE-MONITOR RUGGED

### Features

- AC or DC Charging Versions up to 300 kW at 1,000 V
- CEE for certification measurements between the mains and the charging station
- Internal Logger for measurement data as well as the calculated data
- Online calculation of power, work, power factor and RMS values for AC measurements
- Online calculation of power and work for DC measurements
- 100 Mbit/s XCP-on-Ethernet or Klaric-Server
- 2 independent 1 MBaud CAN-Interfaces



### Connector-Variants

#### AC Charging

Mennekes Type 1/2, GB/T AC  
CEE 32/63 or 125

#### DC Charging

CCS Type 1  
CCS Type 2  
GB/T DC  
CHAdEMO

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# EV CHARGE-MONITOR



### Version

- LAB Plastic housing 400/400/200 mm (L/W/H)
- RUGGED Plastic housing 810/678/305 mm (L/W/H)
- Protection class IP65 (LAB)
- Protection class IP65 (RUGGED)
- Temperature Range -20°C to +65°C (-4°F to 149°F)
- Supply 230 V AC or 12 V DC, power consumption approx. 3 A

### Applications

- Certification measurements
- Energy management
- Charge testing

### Scope of delivery

- CHARGE-MONITOR
- Factory calibration certificate (DAkkS optional)
- HV test protocol
- A2L/DBC files and documentation

### Technical data

<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</b>	±9 mV, ±27 mV, ±42 mV, ±210 mV, +1050 / -240 mV 0,3 µV, 0,9 µV, 1,4 µV, 7 µV, 35 µV Resolution
<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
<b>Voltage Supply Range</b>	120/230 V AC 12 V DC
<b>Power Consumption</b>	typ. 12 W
<b>Temperature Range</b>	-20°C to 65°C (-4°F to 149°F)