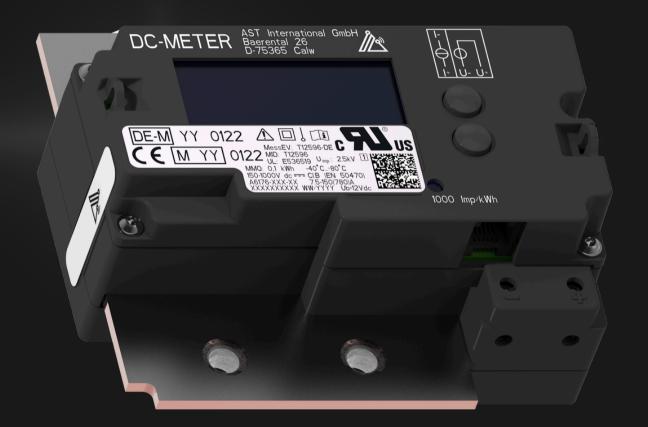


DC Meter

SAFE - PRECISE - LEGAL METROLOGY COMPLIANT

The AST DC Meters are the innovative solution for continuous measurement of energy





Based on our in-house developed 3D-Hall ASIC (AST proprietary), our DC Meters enable a continuously highly precise and bi-directional measurement of provided energy



MARKET NEEDS:

- Continuous current and voltage measurement for DC wallboxes, fast and ultra fast charging stations as well as Megawatt Charging Systems (MCS)
- High currents up to 250A, 780A or 1500A
- High voltages up to 1000V (1500V)

LEGAL METROLOGY COMPLIANT:

- German Calibration Law: Module B, production site according to Module D
- MID 2014/32/EU: EN 50470-4, IEC 62052-31, IEC 62052-11
- UL 61010
- French Calibration Law: Décision n° 22.00.570.001.1

Our DC Meters comply with the accuracy requirements of Class B (MID 2014/32/EU) and Accuracy Class 1 of IEC 62053-41.

MAXIMUM VERSATILITY:

- Compact DC Meter or detached display version
- Bi-directional energy measurement
- Software based cable compensation or 4-wire-measurement





COMMUNICATION PROTOCOL:

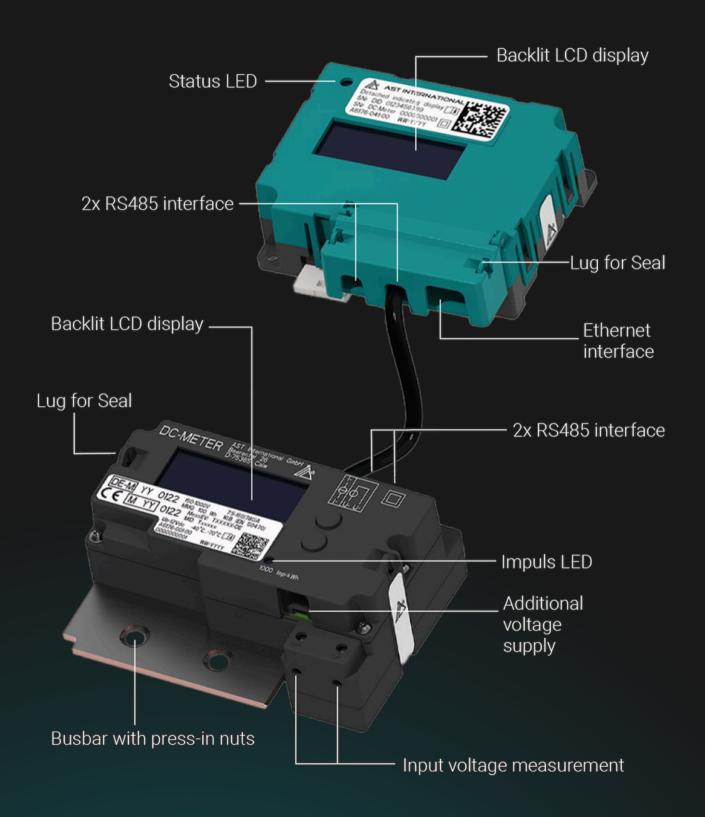
- Transparent billing according to OCMF protocol
- Compatible with S.A.F.E. transparency software
- Designed according to WELMEC software guidelines
- Permanent data provided: energy, current, voltage, temperature

DESIGN:

- Compact DC Meter or DC Meter with a detached display (up to 3m cable length)
- Continuous high current and voltage measurement up to 1500A and 1000V (1500V)
- Operating temperature range: -40°C to +80°C
- Rated insulated voltage at 1000VDC (1500VDC)
- Different covers for metrological sealing available

CONNECTIVITY AND DISPLAY:

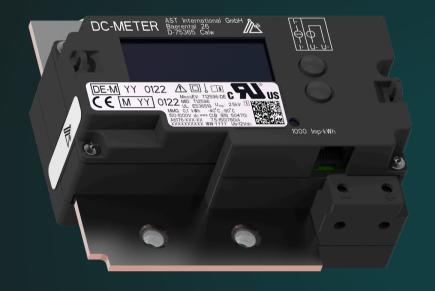
- Supporting Ethernet and RS485 communication protocols
- Backlit LCD display (legal data and energy values)
- NTP (Network Time Protocol)
- Plug-and-Play solution with EcoG, PIONIX and Vector





COMPONENTS:

DC METER:



Measures the current and voltage.
The calculated energy values (in kWh) is transmitted directly to the charging station or to the detached display.

CABLE:



Transmits data from the DC Meter to the detached display. Cables available between length of 0,5 meters to 3,0 meters.

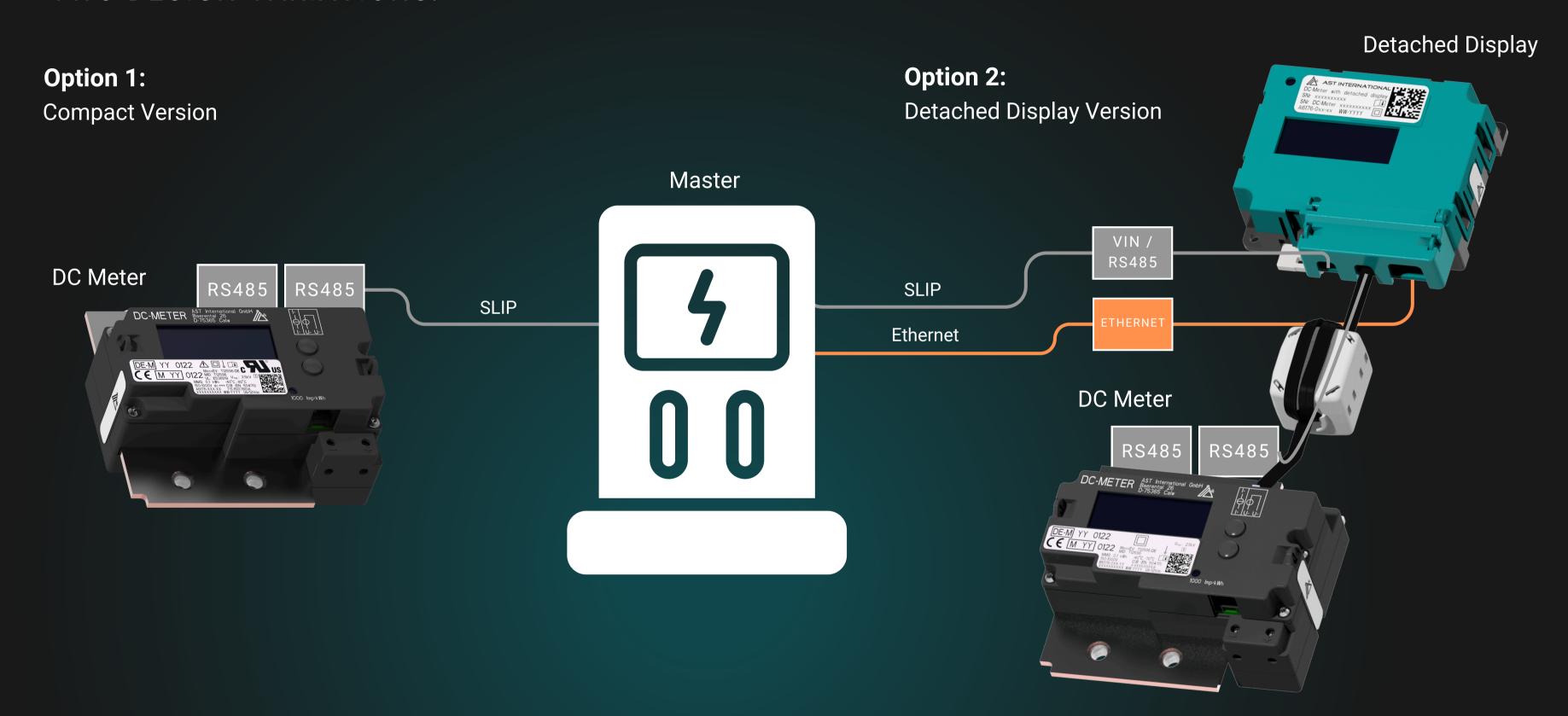
DETACHED DISPLAY:



Interface between the charging station (via Ethernet or RS485) and the DC Meter as well as presenting the measuring data to the end-customer.



TWO DESIGN VARIATIONS:



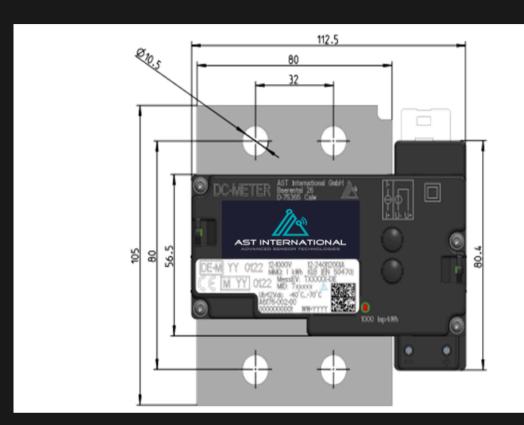


TECHNICAL DATA:

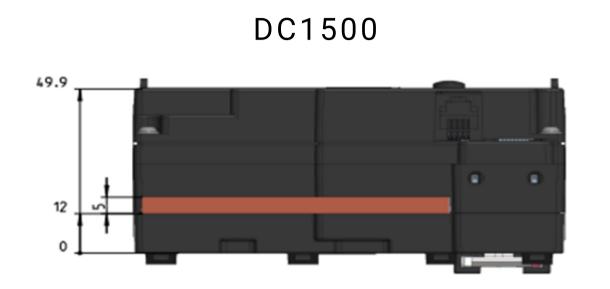
	DC200	DC650	DC1500
Current measurement			
l n	50A	150A	300A
I min	2A	5A	10A
l tr	5A	15A	30A
I max	250A	780A	1500A
lst	0.2A	0.6A	1.2A
Voltage measurement			
Un	1000V		1000V (1500V)
U min	150V		150V



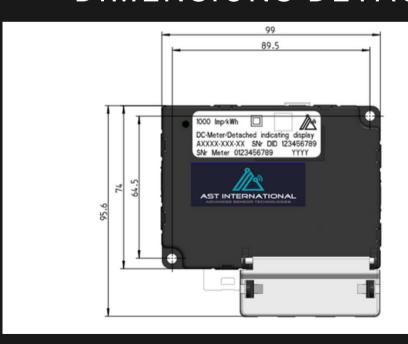
DIMENSIONS DC METER:

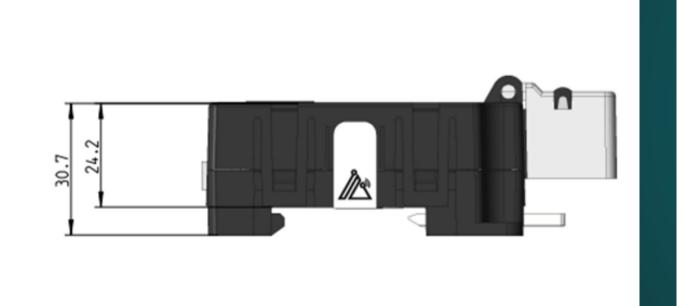




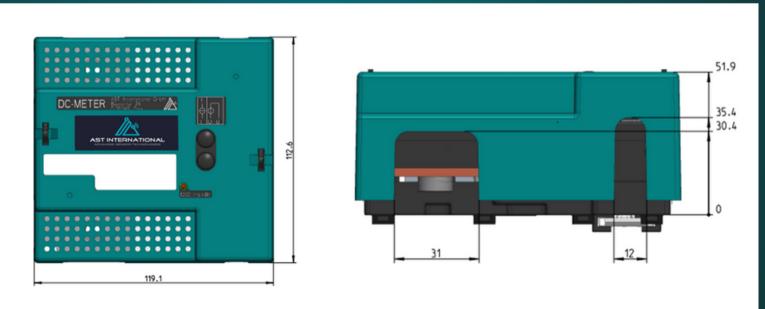


DIMENSIONS DETACHED DISPLAY:





SMALL HOUSING:





LEGAL METROLOGY COMPLIANTS:









