

HVshunt CCS

Internal temperature monitoring of socket and plug

- For electrical vehicle applications
- High-voltage input up to 850 VDC
- Current measurement up to 300 A DC via current transformer
- CCS connector with safety lock function
- Safety shutdown to protection
- Internal temperature monitoring of socket and plug
- LED indication about operating status
- Measurement data output to CAN



Device	
Voltage supply	10 ... 36 VDC
Power consumption, typical	15 W
Working temperature range	-20 ... 70 °C (-4 ... 158 °F)
Storage temperature range	-30 ... 70 °C (-22 ... 158 °F)
IP-Schutzart	IP 65 (ISO 20653 - 2013), housing
IP-Schutzart	IP 44 (ISO 20653 - 2013), socket with plug
IP-Schutzart	IP 24 (ISO 20653 - 2013), socket unplugged
Relative humidity	20 ... 80 %
Dimensions	L222 mm x B146 mm x H105 mm (8.74 in x 5.75 in x 4.13 in)
Weight	4100 g (9.04 lb)
Configuration interface	CAN high speed
Data transfer rate	Software selectable up to 1 Mbit/s (ISO11898-2)
Test standards	DIN EN 61851-1
DC charging cables	Phoenix Contact CCS Type 2
Housing material	Polycarbonate (PC)
Status LED	Yes
High-voltage input	
Measurement range volt	±850 VDC
Current measurement range	±300 A
Amplitude error for current measurement (10 Hz ... 5 kHz)	0.01%
Amplitude error for current measurement (5 kHz ... 100 kHz)	1.00%
Amplitude error for current measurement (100 kHz ... 1 MHz)	20.0%
Tolerance current transformer at ambient temperature 25 °C	±0.2 %
Linearity current transformer (current measurement)	±0.004 %
Tolerance Iso Voltage Divider at ambient temperature 25 °C	±0.2 %
Tolerance Iso Voltage Divider at ambient temperature -20 ... 70	±0.5 %

°C	
Plug temperature control PT1000 (DIN EN 60751)	-50 ... 150 °C (-58 ... 302°F)
Accessories	
System cable	600-567.pdf
CE-Declaration	HVshunt_CCS_CE_Declaration_DE_EN.pdf