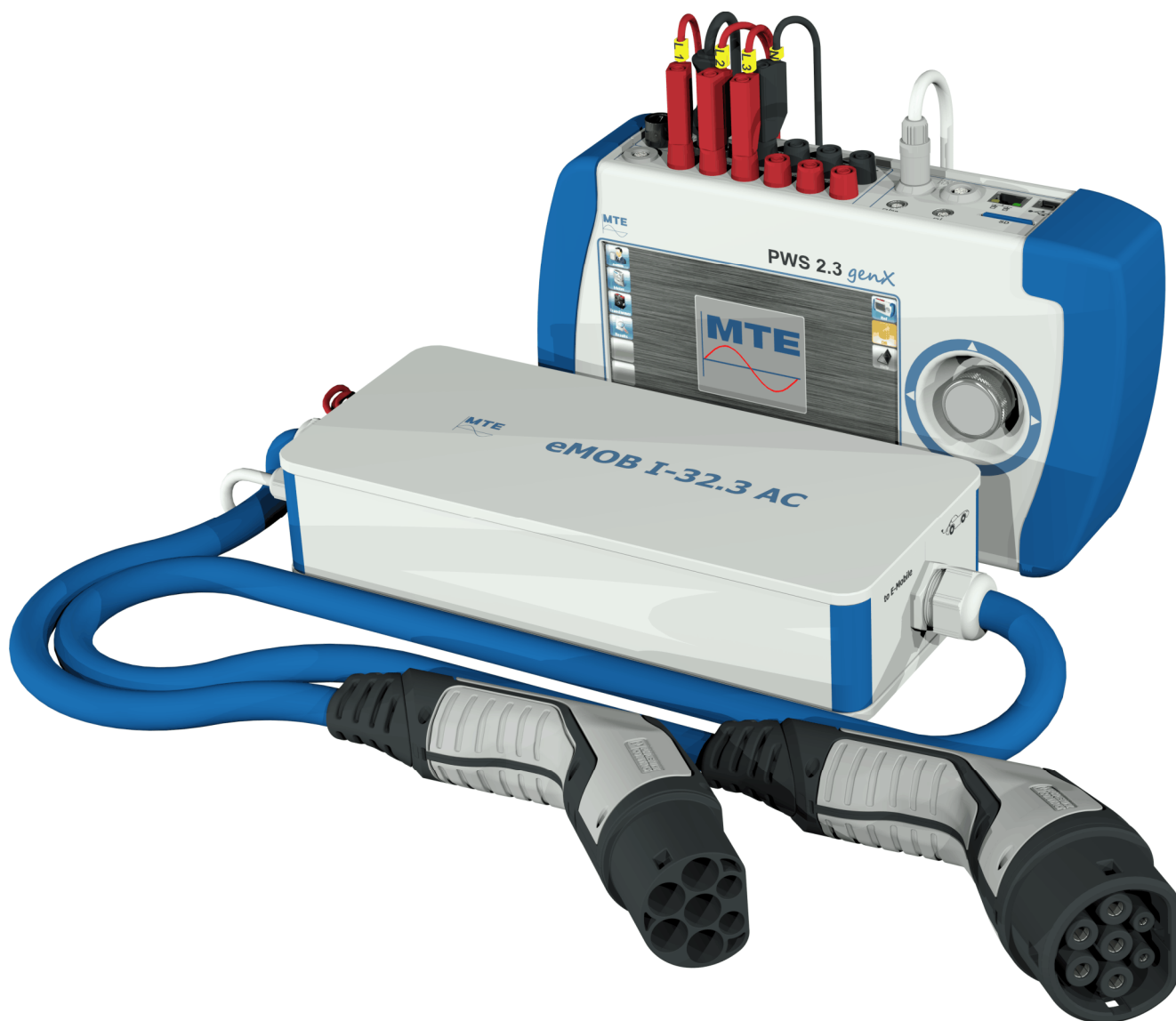


eMOB I-32.3 AC

Test Adapter for E-Mobility Charging Stations



The new eMOB I-32.3 AC test adapter enables in combination with the PWS 2.3 genX portable working standard a comprehensive on-site test of AC charging stations for electric vehicles.

This is prerequisite for precise billing of the energy charged in the accumulator of the electric vehicle considering the voltage drop between the built-in electricity meter and the outlet of the charging station.

The eMOB I-32.3 AC is equipped with charging connectors acc. EN 62196 type 2 ("Mennekes plug").

Advantages

- Portable working standard accuracy class 0.1
- Easy and fast connection between charging station and vehicle
- Charging current three-phase up to 32 A (up to 22 kW power)
- User-friendly functions such as integrated operation manual
- Large 7" touch screen colour display and web server for remote display of graphical user interface and remote control of the unit

Technical data eMOB I-32.3 AC

General

Power supply:	18 VDC available from the universal CT inputs of PWS 2.3 genX
Power consumption:	max. 10W
Housing	Hard Plastic
Dimensions:	L 305 x W 135 x H 70 mm
Weight:	ca. 4.5 kg
Operation temperature:	-10 °C ... +50 °C
Storage temperature:	-20 °C ... +60 °C
Relative humidity:	≤ 85% at Ta ≤ 21°C ≤ 95% at Ta ≤ 25°C, 30 days / year spread
Connection:	EN 62196 Type 2 („Mennekes plug“)

Safety CEE

Isolation protection:	IEC 61010-1:2011-07
Measurement Category:	300V CAT III
Degree of protection:	IP-42

Measurement range

Measuring Quantity	Range	Phase
Current ranges	1 mA ... 32 A	I1, I2, I3
Internal ranges	Range	Output value [V]
	1 mA ... 32 mA	0.15 V ... 1.5 V AC
	32 mA ... 320 mA	0.15 V ... 1.5 V AC
	320 mA ... 3.2 A	0.15 V ... 1.5 V AC
	3.2 A ... 32 A	0.15 V ... 1.5 V AC

Technical data PWS 2.3genX + eMOB I-32.3 AC

Measurement Accuracy

Voltage / Current		≤ ± E [%] ^{1 2 4}
Measuring quantity	Range	Cl. 0.1
Voltage (U1, U2, U3, N)	46 V ... 300 V	0.1
Current direct (I1, I2, I3)	6 mA ... 32 A	0.1
	1 mA ... 6 mA	0.1

Power / Energy Voltage: 46 V... 300 V (U - N)		≤ ± E [%] ^{1 2 3}
Measuring quantity / Input I	Range	Cl. 0.1
Active (P), Reactive (Q), Apparent (S)		
Current direct (I1, I2, I3)	6 mA ... 32 A	0.1
	1 mA ... 6 mA	0.1
Drift / year at Power / Energy (PQS) (I direct)		0.02

Temperature coefficient (TC):		≤ ± TC [%/°C] ³
Range		Cl. 0.1
0° C ... +40°C		0.005
-10° C ... +50°C		0.008

Frequency / Phase angle		≤ ± E
Measuring quantity	Range	Cl. 0.1
Frequency (f)	40 Hz ... 70 Hz	0.01 Hz
Phase angle (φ)	0.00 ° ... 359.99°	0.1 °

Notes

¹ x.x : Related to the measuring value

x.x : Related to the measuring range final value (full scale, FS),

E(M) = FS/M * x.x (e.g. 0.1 at FS = 6 mA, E(2mA) = 6/2 * 0.1 = 0.3 %)

² Fundamental frequency in the range 45 ... 66 Hz

³ S: x.x, P,Q: x.x / PF (related to apparent power), 3- and 4-wire networks

Application

