

PROFITEST H+E EASY CHECK

Function Tester for AC Charging Points per IEC 61851-1, VDE 0122-1

3-447-124-03

3/9.23

- Automatic function tester for AC charging points
- Also for AC charging points with permanently attached cable
- Easy to use – even for laypersons
- Automatic test sequence saves time and money
- Results appear at the display in plain text
- Error display with results for forwarding to service personnel
- USB port for charging the battery



Applications

The number of publicly accessible AC charging points provided by private operators is growing steadily. If the charging process can't be started at an AC charging point, malfunctioning of the AC charging point is usually assumed.

As a result, the operator immediately calls in an electrician, even if the AC charging point isn't the cause of malfunctioning.

The PROFITEST H+E EASY CHECK function tester for AC charging points makes it possible for laypersons such as system operators, service providers and facility managers to safely check the functionality of AC charging points in such cases. Specialized personnel is only contacted in a targeted manner in the event of a diagnosed malfunction – i.e. when help is actually required. You save time and money.

The PROFITEST H+E EASY CHECK can be used to test AC charging points with charging mode 3 and a type 2 connector socket or a permanently attached type 2 cable.

In addition to electrical testing in accordance with the standards, the tester also provides electricians with a full range of function tests without the need for additional equipment such as a multimeter or an oscilloscope.

Features

- Testing of AC charging points in charging mode 3
- Vehicle simulation (CP): simulation of an electric vehicle's charging socket
- Connection to the charging socket or the type 2 plug of an AC charging point
- Cable simulation (PP): verification of values for 20 and 32 A cables*
 - * 32 A only if the 20 A test fails
- Testing of vehicle states A, B and C, phases, tOFF (state E), rotating field and duty cycle

PROFITEST H+E EASY CHECK

Function Tester for AC Charging Points per IEC 61851-1, VDE 0122-1

Technical Data

Mechanical Design

Housing	110 × 70 × 210 mm
Weight	998 g
Protection	IP 21
Display	Monochrome

Ambient Conditions

Operating temperature	-5 ... +45 °C
Storage temperature	-5 ... +60 °C
Relative humidity	Max. 75%, non-condensing, no condensation allowed
Elevation	Max. 2000 m

Power Supply

Internal rechargeable battery (charging via USB port)	
Type	18650H-2600
Nominal voltage	3.7 V
mAh	2600 mAh
Energy	9.62 Wh
Protective function	PCB/IC protection
Charging current	Max. 1 C
Discharge current	Max. 5.2 A (2 C)
Internal resistance	180 mΩ
Weight	48 g
Dimensions (dia. x L)	18 × 69 mm

Electrical Safety

Measuring category	CAT III, 300 V
Pollution degree	2
Protection class	II

Interface and Memory

Interface	Micro USB port (for charging the battery)
Internal memory	Last measurement is saved automatically

Characteristic Values

Test Analysis Standard

AC	DIN EN IEC 61851-1 VDE 0122-1 Electric vehicle conductive charging system – Part 1: General requirements
Measurement of voltage values in all three phases and N	

Test Parameters

Cables	20 A 32 A * * Only if the 20 A test fails
Vehicle states	State A, state B, state C Phases tOFF (state E) Rotary field Duty cycle



PROFITEST H+E EASY CHECK

Function Tester for AC Charging Points per IEC 61851-1, VDE 0122-1

Product Standards

The tester has been manufactured in accordance with the following safety regulations:

IEC 61010-1 EN 61010-1 VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use – General requirements
EN 60529 VDE 0470, part 1	Test instruments and test procedures Degrees of protection provided by enclosures (IP code)
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements
DIN EN IEC 61851-1 VDE 0122-1	Electric vehicle conductive charging system – Part 1: General requirements

Scope of Delivery

1	PROFITEST H+E EASY CHECK (M525F)
1	Charging cable (micro USB plug)
1	Operating instructions

Order Information

Description	Article Number
PROFITEST H+E EASY CHECK	M525F


Further information regarding accessories can be found:

- in our Measuring Instruments and Testers catalog
- on the Internet at www.gossenmetrawatt.com

© Gossen Metrawatt GmbH

Prepared in Germany • Subject to change, errors excepted • PDF version available on the Internet

All trademarks, registered trademarks, logos, product names and company names are the property of their respective owners.

 **GOSSEN METRAWATT**
Gossen Metrawatt GmbH
Südwestpark 15
90449 Nürnberg • Germany

Phone +49 911 8602-0
Fax +49 911 8602-669
E-mail info@gossenmetrawatt.com
www.gossenmetrawatt.com