

PROFITEST H+E EASY CHECK

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

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- 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 in plain text at the display
- Error display with results for forwarding to service personnel
- USB interface for charging the battery



Applications

The number of publicly accessible AC charging points made available by private operators is growing steadily. If the charging process can't be started at an AC charging point, it's usually assumed that the charging point itself has malfunctioned.

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 the AC charging point in such cases. Specialized personnel is only contacted in a targeted manner in the event of a diagnosed malfunction – i.e. when it's actually necessary 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 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 functional tests without the need for additional equipment such as a multimeter or an oscilloscope.

Features

- Testing of AC charging points in charging mode 3
- Simulation of an electric vehicle charging socket
- Connection to the charging socket or the type 2 plug of an AC charging point
- Verification of values for 20 A and 32 A cables*
 * 32 A only if 20 A test fails
- Testing of vehicle statuses A, B and C, phases, tOFF (status E), rotating field and duty cycle

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Technical Data

Mechanical Design

Housing $110 \times 70 \times 210 \text{ mm}$

Weight 998 g Protection IP 21

Display Monochrome

Ambient Conditions

Operating -5 ... +45 °C

temperature

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 $180 \text{ m}\Omega$ Weight 48 g

Dimensions (dia. X L) 18 × 69 mm

Electrical Safety

Measuring category CAT III, 300 V

Pollution degree 2
Protection class II



Electromagnetic Compatibility

Interference EN 55022, class A,

emission for use in industrial environments

Interference DIN EN 61000-4-2 immunity DIN EN 61000-4-3

DIN EN 61000-4-4 DIN EN 61000-4-5 DIN EN 61000-4-6

Interface and Memory

Interface Micro USB (for battery charging)

Internal memory The latest 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

Cable 20 A

32 A*

 * only if 20 A test fails

Vehicle states State A, State B, State C

Phase

tOFF (Status E) Rotating field Duty Cycle

Gossen Metrawatt GmbH

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Product Standards

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

IEC 61010-1 Safety requirements for electrical EN 61010-1 equipment for measurement, VDE 0411-1 control and laboratory use -

General requirements

EN 60529 Test instruments and test procedures Degrees of protection provided by VDE 0470, part 1

enclosures (IP code)

Electrical equipment for measure-DIN EN 61326-1 ment, control and laboratory use -VDE 0843-20-1

EMC requirements -

Part 1: General requirements

EN 55022 Information technology equipment -

> Radio disturbance characteristics -Limits and methods of measurement

DIN EN 61000-4-2 Electromagnetic compatibility

VDE 0847-4-02 (EMC) -

Part 4-2: Testing and measurement techniques - Electrostatic discharge

immunity test

DIN EN 61000-4-3 Electromagnetic compatibility

VDE 0847-4-03

(EMC) -Part 4-3: Testing and measurement

techniques - Radiated, radio frequency, electromagnetic field

immunity test

DIN FN 61000-4-4 Electromagnetic compatibility

VDE 0847-4-04

(EMC) -

Part 4-4: Testing and measurement techniques - Electrical fast transient/

burst immunity test

DIN EN 61000-4-5 Electromagnetic compatibility

VDE 0847-4-05

(EMC) -

Part 4-5: Testing and measurement techniques - Surge immunity test

DIN EN 61000-4-6 Electromagnetic compatibility

VDE 0847-4-06 (EMC) -

> Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio

frequency fields

Electric vehicle conductive charging DIN EN IEC

61851-1 system -

VDE 0122-1 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

Article number Description

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

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