

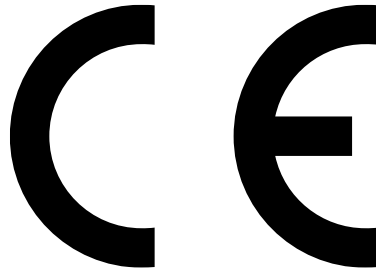
AMS4000-100

Reefer Socket Tester



User manual

Technical specifications and certification (Declaration of Conformity);



DECLARATION OF CONFORMITY

The manufacturer of the product described herein, to which this description refers, declares on its sole responsibility that the product meet the relevant fundamental safety, health and protection requirements of the relevant EU guidelines and that the corresponding test reports are available for examination by the relevant authorities and can be requested from the seller of the appliance, especially with regard to CE Declaration of Conformity issued by the manufacturer or with the manufacturer's approval.

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Introduction

The socket tester serves as a rapid diagnostic tool specifically designed for assessing 32A CEE power wall sockets at marine container stations, with a maximum rating of 440V/AC. This fully automated 3-Phase Socket Tester plays a crucial role in averting potential risks and hazards. It offers two essential test functions: a comprehensive three-phase test and a precise evaluation of the earth wire and phase connection. Its dependable performance makes it a valuable instrument for enhancing safety and minimizing potential dangers.

Safety recommendations

The warranty will be void in the event of damage caused by failure to observe these safety instructions! We do not assume any liability for any consequential damage!

This device must only be operated by specialist.

Never touch the device with wet or moist hands. There is a risk of a lethal electric shock!

On industrial sites, the accident prevention regulations of the association of the industrial workers' society for electrical equipment and utilities must be followed.

Do not use in adverse ambient conditions. Adverse ambient conditions are damp or excessively high humidity, dust and flammable gases, vapors or solvents.

If you have a reason to believe that the device can no longer be operated safely, disconnect it immediately and secure it against being operated unintentionally.

It can be assumed that safe operation is no longer possible if:

- the device is visibly damaged,
- the device no longer works and
- the unit was stored under unfavorable conditions for a long period of time or
- it has been subjected to considerable stress in transit


No extra personal protection is required when operating the RST under the above conditions.

Description of the RST

Highlights

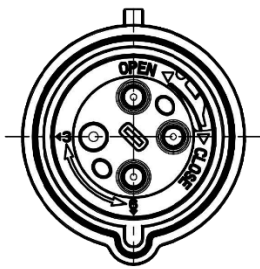
- Protects marine container against damage
- For three-phase power sources
- Fully automatic testing
- Earth wire / Two types of phase tests
- Applicable on 3H or 6H wall sockets
- Selectable 3h of 6h male plug

Technical data

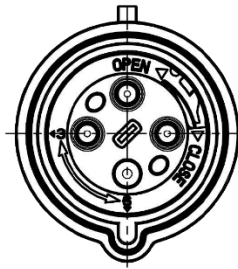
Voltage supply	AC 440V, 50/60Hz
Over-voltage category	CAT II
Plug	CEE – 32A
Power input consumption	< 20mA per phase
Dimensions (LxVxH):	135x93x51 mm
Weight:	435g
No. of poles	3P + 
Earth contact position	3H/6H
Protection degree	IP65
Housing material	Flame retardant PA6
Contacts	Nickel plated brass
Feature	Able to switch from 3H to 6H by using a screwdriver
Approvals	CE/ROSH/REACH

CHARGER AND BATTERY

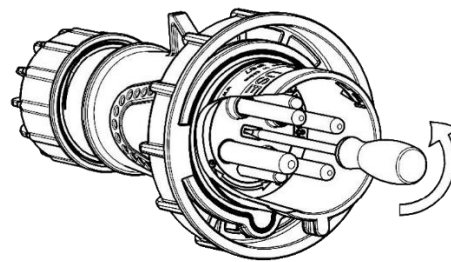
Type	LP-E10
Capacity	2200 mAh
Nominal voltage	7.4V
Charger output	8.4V/500mA
Charger input	5V/1A



Earth pin in 3H position



Earth pin in 6H position



Push & Rotate



Installation instructions

Remove the carrying case with the RST from the shipping cardboard box.

Take the battery and the charger from the carrying case and charge the battery.

Take the RST from the carrying case and insert the battery in compartment at the back of the RST.

The RST is now ready for use.

When the RST is unpacked the shipping cardboard box can be disposed of according to the local regulations.

Operating instructions

Intended use

The socket tester is intended solely for a quick diagnosis of 32A CEE wall sockets on marine container stations (max. 440Vac). This device recognizes and detects interruptions to the three phases and the earth wire. It is a safe, quick and professional way of testing a 32A 3H/6H wall socket. No part of the product may be modified or rebuilt! Observe the safety instructions in their entirety.

Operating the socket tester

- Insert the CEE plug into the wall socket.
- Press the power button.
- The device will measure/detect the phases of the wall socket and show on the LED indicators the state of the phases.
 - When all phases are present the device signals the phase order by rotating the LED's in the direction of the phases.

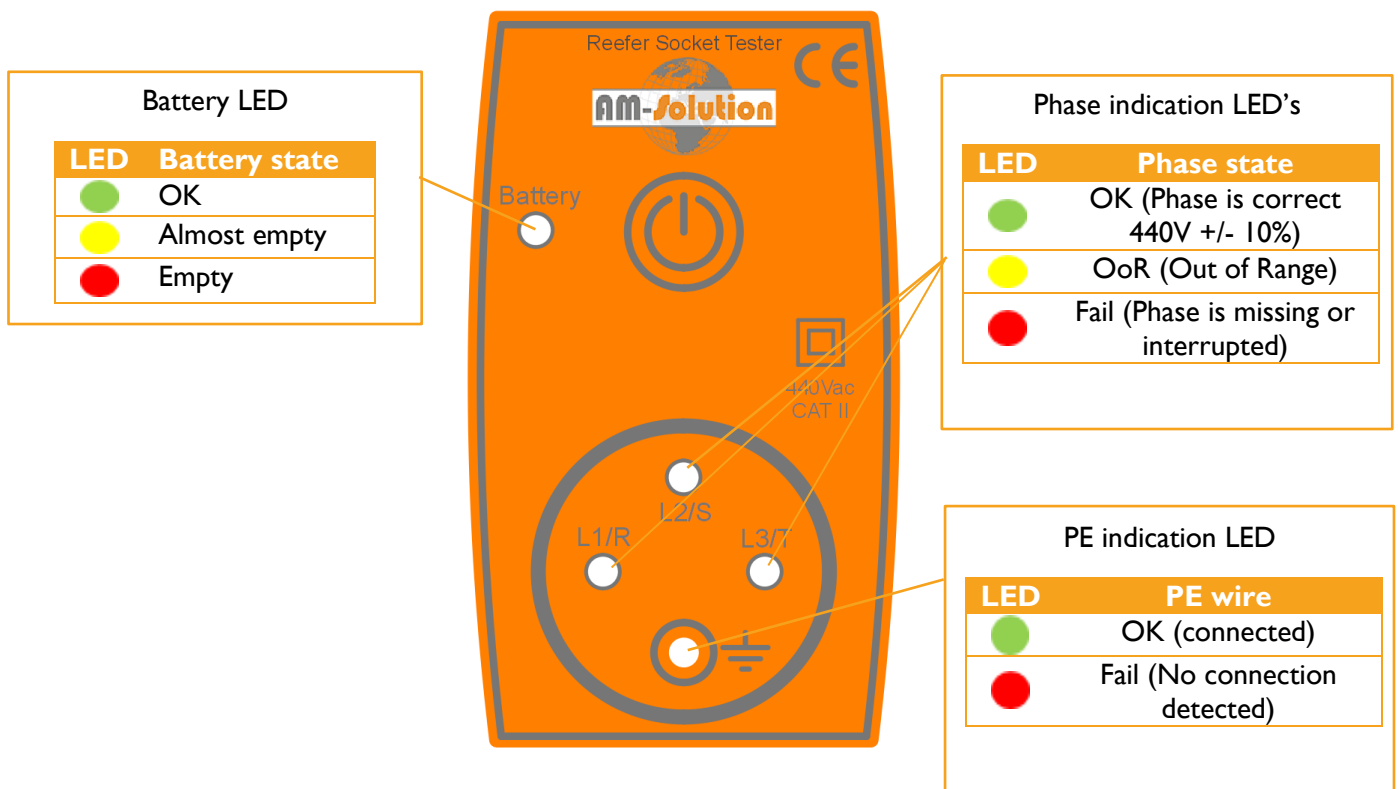


When the CEE plug is inserted, high voltages are present inside the device.

Phase order	LED pattern
L1/R – L2/S – L3/T	Clockwise
L1/R – L3/T – L2/S	Counter clockwise







- The device will switch off automatically when no phases are detected during 1 minute.

LED indicators



Any installation work or the elimination of installation errors may only be carried out by specialists who are familiar with the relevant regulations and the ensuing risks.

Examples display

		All phases are correct.
		One phase is not present. More red LED's could appear in different positions
		One phase is out of range. More yellow LED's could appear in different positions.

Maintenance

There are no serviceable parts inside the device, except for the battery. When the battery is empty it can be charged in the provided charger. To charge the battery remove the RST from the protective bumper and open the battery compartment at the back of the device. The battery can now be removed and charged with the provided charger.

Storage and transport

In order to prevent mechanical damage to the RST while not in use it shall be stored and/or transported in its carrying case.

Should you need to ship your RST for any reason, please take care to ensure your devices will be transported without damage.

Faults and repairing

There are no user serviceable parts inside the device. When the device malfunctions contact the customer service department of AM-Solution.

Troubleshooting the device

After pressing the power button:

- The battery LED is off
 - Other LEDs are off
Battery is empty: Replace the battery with a charged one
 - Some/all measurement LEDs are on (any color)
The battery LED is defective. Contact service department
- The battery LED is on
 - Some/all measurement LEDs are off
Device is defect: Contact service department.
 - Some/all measurement LEDs are red.
The phases according to the red LEDs are not detected. (See LED indicators)

Accessories

The following accessories are delivered with the RST.

- Carrying case.
- Li-Ion battery pack, LP-E10, 7.4V/2200mAh
- Charger for LP-E10 battery pack.

Dismantle, environment

The expected lifecycle of the RST is 10 years.

Electronic products are raw material and do not belong in the regular waste. When the device has reached the end of its service life, please dispose of it, according to the current statutory requirements, at a local collection site or recycling. Disposing of flat batteries in the regular waste is prohibited.

Contact information

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