

Caution: Batteries and electrical/electronic equipment must be disposed of in accordance with local regulations, not in household waste.

ELECTROMAGNETIC COMPATABILITY (EMC)

Follow the instructions during the installation and operation of the device.

To avoid electromagnetic interference with the operation of the device, do not use the device at the same time as other electronic devices.

To avoid electromagnetic interference with the operation of the device, do not use or stack the device near, on or under other electronics.

Do not use cables or accessories that are not specified for this device, as this can increase the emission of electromagnetic waves from the device and reduce the device's electromagnetic immunity.

Caution: Do not use the device in the same room as other electronic devices, (e.g. life-supporting devices that have significant impact on the life of the patient and treatment outcomes) or other measuring instruments or treatment devices that use little electrical power.

Electromagnetic Interference – Requirements and Tests

The ADC Diagnostix Desk Charger is intended for use in an electromagnetic environment as specified below. The user of the charging base should ensure that they are used in such an environment.

Electromagnetic Environment – Instructions

The ADC Diagnostix Desk Charger is intended for use in an electromagnetic home healthcare environment and for professional facilities such as industrial areas and hospitals. The user of the device should ensure that it is operated in such an environment.

The ADC Diagnostix Desk Charger uses RF energy only for internal function. RF emissions are therefore very low and unlikely to cause interference to nearby electronic equipment.

Warning! Portable RF communications equipment (radios), including their accessories, such as antenna cables and external antennas, should not be used at a distance of less than 30 cm (approximately 12 inches) from the parts and cables of the ADC Diagnostix Desk Charger as designated by the manufacturer. Failure to do so may result in a reduction in the performance of the device.

Emissions test

Performance

RF Emission	CISPR 11	Group 1
RF Emission	CISPR 11	Class A
Harmonic emissions	IEC 61000-3-2	Class A
Voltage fluctuations / flicker emissions	IEC 61000-3-3	Corresponds

WARRANTY

This ADC Diagnostix Desk Charger is warranted against defects in materials or workmanship for a period of two years. The warranty does not apply to damage caused by improper handling, accidents, improper use, or alterations made to the instrument by third parties.

The warranty is only valid after the product is registered online at www.adctoday.com/register.

For our European Customers

A printed copy of this manual can be sent to you at no charge within seven calendar days. To request a copy, e-mail us at info@adctoday.com.

Our website, <https://www.adctoday.com>, where these instructions for use are available fulfills the requirements of personal data protection, according to Directive 95/46/EC and GDPR on the protection of individuals with regard to the processing of personal data and, on the free movement of such data.

Any serious incident that has occurred in relation to this medical device should be reported to ADC and the competent authority of the Member State in which the user and/or patient is established.

For Australian Consumers

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

To register your product and obtain further detailed user information about our products and services visit us at:

www.adctoday.com
and follow the links.

For questions, comments, or suggestions call us toll free at:

1-800-232-2670



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Diagnostix™

Desk Charger

5500N Instructions for Use



Questions?

Call ADC toll free:
1-800-232-2670



Congratulations on your purchase of an ADC® Diagnostix™ Desk Charger.

ADC professional diagnostic products are the instruments of choice where accuracy and dependability are critical.

This feature-rich instrument was designed to simplify physical exams and non-invasive diagnostics. With proper use and care it will provide many years of dependable service.

Read these instructions for use thoroughly before attempting to use your new ADC Diagnostix Desk Charger.

INTENDED USE

The ADC Diagnostix Desk Charger is manufactured for the use of charging ADC or compatible 2.5V or 3.5V power handles of various diagnostic instruments heads.

The safe operation of this device is only guaranteed if original ADC parts and accessories are used.

CONTRAINdications

Contraindications are the contraindications of the respective medical devices that are charging in the charging base.

The device is intended for use only as specified in these instructions for use.

WARNINGS AND CAUTIONS

This ADC Diagnostix Desk Charger has been manufactured to the highest quality standards and is subject to rigorous quality control.

Read these instructions for use carefully before putting the unit into operation and keep them in a safe place.

Please note that instruments described in these instructions for use are to be used by suitably trained personnel only. The safe functioning of this instrument is guaranteed only when original parts and accessories from ADC are used.

Warning: The device must not be operated in rooms in which flammable mixtures or mixtures of pharmaceuticals and air or oxygen or nitrous oxide are present, e.g. operating theatres.

Warning: Do not use in a magnetic resonance environment.

Warning: There is a danger of life-threatening electrical shock. Unplug the instrument before cleaning or when disinfecting.

Warning: The device contains sensitive electronic components. Avoid strong electrical or electromagnetic fields in the direct vicinity of the device (e.g., mobile telephones, microwave ovens). These can lead to temporary impairment of the ADC Diagnostix Desk Charger.

Warning: This device must be used in a controlled environment. The device must not be exposed to harsh environmental conditions.

Warning: Do not use batteries or electrical cords other than those included with this product or replacement parts supplied by the manufacturer.

Caution: If there are signs of material degradation, the device should not be reused and should be disposed of in accordance with the disposal instructions.

Caution: Never place desk charger in liquids. Ensure there is no ingress of liquids into the housing.

SYMBOLS DEFINITION

The following symbols are associated with your Diagnostic™ Desk Charger.

Symbol	Definition
	Read operating instructions
	Medical device
	Type B Application Part
	Protection Class II Unit
	Warning! The general warning sign indicates a possibly dangerous situation that can lead to serious injuries.
	Caution! The caution symbol indicates a potentially dangerous situation that could result in minor or moderate injury. It can also be used to warn of unsafe practices.
	Direct current
	Alternating current
	Date of Manufacture
	Manufacturer
	Manufacturer's serial number

Symbol	Definition
	Lot number
	Reference number
	Temperature for transport and storage conditions
	Relative humidity for transport and storage conditions
	Air pressure for transport and storage
	Air pressure for ambient operation
	CE marking
	Discard according to national regulations or EU directives
	Caution: Federal law restricts this device to sale by or on the order of a physician (licensed physician).
	Not made with natural rubber latex
	Phthalate free
	Do not use outdoors
	Do not use in an MR environment

START-UP AND OPERATION:

The ADC Diagnostix Desk Charger is suitable for charging of 2.5V or 3.5V Desk rechargeable handles.

Preparation Prior to Charging

- Ensure that the charging base is positioned on a level surface. Do not position unit in the direct vicinity of a radiator. Protect against direct sunlight.
- Fluids must not penetrate into the interior of the enclosure. Do not use fluids in close proximity of the charging base.
- Connect unit to an electrical outlet. Ensure that the voltage stated on the rating plate on the bottom of the unit corresponds with the mains voltage.
- After connection of the charging base, a self-test is performed. During the test, the LEDs on the front of the unit will light up several times.
- When charging 19mm handles (AA size), insert plastic reducers in handle recesses. When charging 28mm handles (C size), remove reducers from handle recesses by lifting in an upward direction before inserting handle.
- The ADC Diagnostix Desk Charger may be used for charging 2.5V and 3.5V rechargeable batteries. The charging chambers are interchangeable. A 2.5V and 3.5V unit may be charged simultaneously.



CHARGING

- The rechargeable battery is tested when inserted into the charging chamber.
- At voltages below 1.5V, the rechargeable battery is either fully discharged or faulty. The charging base will attempt to recharge the battery by applying a pulsating charging current, causing the yellow charging LED to flash.
- For rechargeable battery voltages above 1.5V, charging will commence, and the yellow charging LED will turn on.



CHARGING TIME

- The end of the charging time is detected by evaluating the negative voltage differential caused by the heating of the rechargeable battery cells when fully charged. The yellow charging LED will switch off, and the green "rechargeable battery full" LED will turn on.
- The maximum charging time for NiMH rechargeable batteries is limited to <650 minutes (10.8 hours). The maximum charging time for Li-ion rechargeable batteries is limited to 720 minutes (12 hours).
- If the green LED is on when the battery is full, the charging base switches to a maintenance charge.
- The temperature inside the charger base is monitored. Do not keep in sunlight, or close proximity of a radiator, as over heating may cause premature actuation of the automatic switch-off mechanism shutting the charger off before completing a full charge.

Caution:

- When the handle is removed from the charging chamber for a few seconds while the rechargeable battery is fully charged (green LED on) without switching on, initially the yellow charging LED will be switched on when reinserting the unused rechargeable battery. This is not a malfunction of the charging base, but indicates battery is fully charged.
- When the rechargeable battery is full, no negative voltage differential can be recorded. The rechargeable battery needs to warm up slightly again to display the battery full signal.
- The time taken to turn the green battery full LED back on can vary considerably (15 minutes or longer). The additional temperature sensing and timer ensure careful monitoring of the charging process at all times.
- To ensure that the instruments are always ready, we recommend that the instruments are placed in the charging base after use.

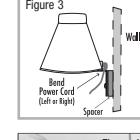
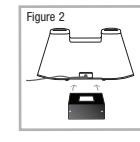
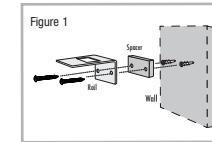
SPECULA COMPARTMENT

The specula compartment may be used to store spare specula and lamps.



WALL MOUNTING

The ADC Diagnostix Desk Charger may be mounted on the wall.



To Mount: Hold wall rail in place on the wall where intended for mounting. Level and mark hole positions with a pen. Drill 5 mm (3/16") wide holes. Insert the supplied mollys in the holes. Position spacer holes over the mollys and affix rail over the spacer and secure to the wall with the screws supplied (figure 1).

Slide unit bracket guide slots of the ADC® Diagnostix™ Desk Charger plate onto the wall rail. When fully inserted, the bottom cover tab will engage and lock in the recess of the wall rail (figure 2).

Position the power cord either to the right or left behind the base to accommodate electrical outlet (figure 3).

To remove: Press the bottom tab lock, which allows the unit to slide from the rail (figure 4).

SIGNALING OF THE OPERATING STATE AND ERROR MESSAGES

LEDs switching on repeatedly, brief permanent switch-on, followed by off	Mains connection, self-test
Yellow LED on	Charging in progress
Green LED on	Rechargeable battery fully charged, unit changing to maintenance charge
Yellow LED flashing	Rechargeable battery fully discharged or faulty. Unit trying to regenerate rechargeable battery by a pulsating charging current. Should no charging cycle be indicated after approx. 16 hours, the rechargeable battery is faulty or must be replaced
Yellow & Green LED off	No battery handle with battery in receiving slot

Note: The exact cause of the error can only be investigated by ADC.

CLEANING AND DISINFECTION

Prior to cleaning or disinfection of the unit, you must unplug the power supply unit.

To avoid possible cross-contamination, the charging base must be cleaned and disinfected.

- The charging base is not a sterile device and cannot be sterilized. The device is not approved for mechanical processing and sterilization. This will result in irreparable damage.
- The charging base can be cleaned from the outside with a damp cloth, moistened with alcohol, until optical cleanliness is achieved. Only use disinfectants in accordance with manufacturer's specifications. Only disinfectants with proven efficacy according to national guidelines should be used.
- Never place the charging base in liquids. Ensure there is no ingress of liquids in the housing.

Sterilization

According to the Test Centre for Medical Devices in Tübingen, Germany, sterilization is only prescribed in the case of operative procedures. There is no necessity for sterilization of this charging base.

TECHNICAL SPECIFICATIONS

Model:	ADC Diagnostix™ Desk Charger
Display System:	LEDs Connection
Mains Connection:	(See Note on Bottom Label)
Power Adapter Input:	100 V-240 V AC / 50/60 Hz/0.6 A
Power Adapter Output:	9 V DC/2 A/18 W
Classification:	Type B Application part
Operating Conditions:	32°F to 104°F (0°C to 40°C) 10% to 85% relative humidity (non-condensing)
Storage and Transport Conditions:	23°F to 122°F (-5°C to 50°C) 10% to 85% relative humidity (non-condensing)
Air Pressure:	700 to 1050 hPa
Dimensions:	7.3" x 3.4" x 2.9" (186 mm x 87 mm x 74 mm)
Weight:	Approx. 1.1 lbs (500 g) without packing

STANDARDS

Electrical safety of medical devices IEC 60601-1-2

MAINTENANCE

These instruments and their accessories do not require any specific maintenance. Should an instrument have to be examined for any specific reason whatsoever, please return it to ADC.

DISPOSAL

The operating life of the Diagnostix Desk Charger is 10 years. At the end of its service life, the charging base and all accessories must be disposed of in accordance with the regulations for such products.