

# DP 14 automatic charger

Order No. 9 2517

## Operating instructions

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### FEATURES

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The DP 14 charger is an automatic rapid-charger for NiCd battery packs. The charge current is supplied to the battery by a pulsing process. The charger uses the Delta Peak method to detect a fully charged battery. At the end of the rapid-charge process the unit switches automatically to a trickle charge, and the current then falls to about 5% of the rapid-charge current previously selected. Please note that it is not allowed to leave the NiCd pack in a trickle charge process for more than one hour.

### SPECIFICATION

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#### Input

- Voltage: 12 V DC - car battery
- Fuse: 15 A fuse

#### Output

- No. of cells: 4 to 14 NiCd cells
- Cell capacity: 100 mAh to 2000 mAh
- Output current: 0.1A to 3A, infinitely variable
  
- Dimensions: 150 x 102 x 40 mm
- Weight: 600 g

### USING THE CHARGER

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#### 1. Connect the charger to the power source.

##### Check polarity carefully!

The LED (SCHNELL/ERHALTUNG - RAPID/TRICKLE) will glow green, and you will hear an audible warning signal. Press the OFF button to switch off the warning tone if you wish.

#### 2. Rotate the current selector knob anti-clockwise as far as it will go.

This selects the minimum charge current.

#### 3. Connect the NiCd battery to the output sockets.

##### Check polarity!

- RED = POSITIVE (+)
- BLACK = NEGATIVE (-)

#### 4. Start the charge process.

Press the START button.

The LED (SCHNELL/ERHALTUNG) glows red.

#### 5. Set the charge current.

You can now rotate the current selector knob to set a charge current which is suitable for the battery connected to the unit. Follow the battery manufacturer's recommendations here.

As a guide we recommend  $2 \times C$  for rapid-charge MULTIPLEX batteries, where C = nominal capacity.

Charge capacity in A = Capacity of the battery x 2.

When the charge process is complete, the unit switches to a trickle charge. The LED then switches back to green and the audible warning signal sounds again.

#### 6. Disconnect the power source, charger and NiCd pack when you have finished charging.

### SAFETY MEASURES

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***This charger may only be used with rapid-charge type batteries.***

***Never attempt to charge your batteries at an excessive rate.***

NiCd packs can explode if the charge current is too high.

***Do not stand the unit on a heat-sensitive surface for charging.***

The case gets quite warm during the charge process, and this could damage the surface beneath.

***From time to time check the battery temperature by hand while it is being charged.***

At the end of the charge process the pack will heat up to about 40 degrees C.

***Be sure to disconnect power source, charger and NiCd pack when the charge process is over.***

The trickle charge is too high to allow you to leave batteries connected to the charger permanently - max. 1 hour!