



# **DUOSTAR**

## **Installation and Operating Instructions**

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## 1. Introduction

The DUOSTAR is a data collector furnished completely in a single, easy to operate device. The DUOSTAR has many powerful features and combines barcode and proximity reading. **Figure 1** shows the different parts of the device.

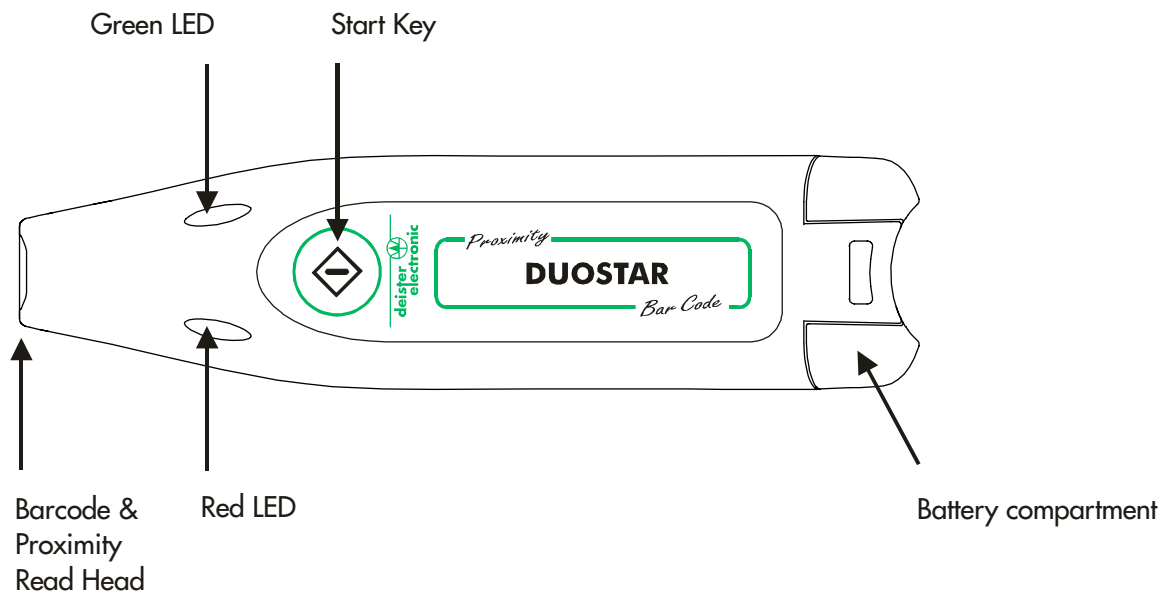


Figure 1: The drawing shows the different parts of the DUOSTAR

## 2. Initialisation

Before using your DUOSTAR, please ensure that it has been initialised to your particular system. This will ensure that the date and time of the unit is set correctly and that the collector will correctly recognise your checkpoints. For details on how to initialise your DUOSTAR, please see the operating instructions for your deister patrol system or other software.

To start the communication between the DUOSTAR and the PC proceed as follows:

1. Connect the PC RS232 Port with the DTU, deTrans or deReporter (please use the cable that comes with the transfer unit)
2. Connect the power supply to the DTU and switch it on
3. Start the software on the PC
4. Place the DUOSTAR into the DTU
5. Press the Start Key on the DUOSTAR

### 3. Battery Change

The DUOSTAR data collector uses 2 AA-type Alkaline batteries (e.g. Duracell Procell). To change the battery of the DUOSTAR, the cover of the battery compartment must be removed by carefully unscrewing the two screws on the back of the device with a snake eye screw driver. Please ensure that the batteries are fitted correctly, according to the +/- polarity markings (**see Fig. 2**).



**Attention:** Data stored inside the DUOSTAR could be deleted if the battery is empty or removed (more than 30 seconds). To avoid any accidental loss of information, please download and store the data before changing the battery.



**Attention, Intrinsically Safe device:** If you use the intrinsically safe DUOSTAR, batteries must not be changed in the hazardous area.

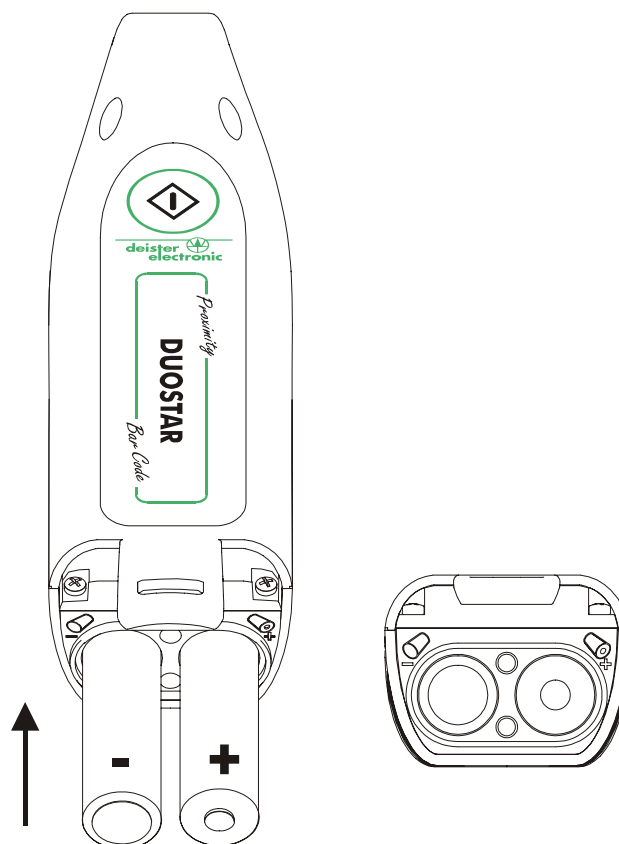


Figure 2

## 4. Signalisation

The DUOSTAR provides a number of different audio tones, which together with the red and green LEDs, provide clear feedback for the user. The different tones and conditions are described below. If you have the PDF version of the document, you may click the link to hear the sound.

<i>Successful reading</i>	Four short beeps with green LED switched on.
<i>Double read</i>	Two short beeps with green and red LED if same checkpoint is read twice in the same minute.
<i>Error read label</i>	One long beep with red LED switched on.
<i>Memory nearly full</i>	Three short beeps. One high, one mid, one low tone.
<i>Low battery</i>	If the battery is approaching empty, the reading of a checkpoint will result in only three short beeps, one high tone, two low tones together with the red LED. Please download and store the memory of the collector as soon as possible and change the battery.
<i>Ram error</i>	A siren sound. The software has detected a memory error. In this case the collector is unable to store further checkpoints. In the event of such a siren, please download the data collector as soon as possible and inspect any stored information for errors.

## 5. Reading Barcode Checkpoints

For ease-of-use, the DUOSTAR uses the same Start key when reading either proximity or barcode checkpoints. When the collector is activated by pressing the Start key, the DUOSTAR first checks for a proximity checkpoint. If the reading head does not detect a proximity checkpoint then the reader automatically switches to 'barcode reading mode'. By pressing the on-button, the data collector is activated for a period of 3 seconds. After this time the collector will switch off, returning to stand-by mode.

To read barcode checkpoints the reading head of the DUOSTAR should be placed in contact with the top of the barcode. Activate the collector by pressing the Start key and scan the reading head of the DUOSTAR across the full length of the checkpoint, at an angle of 80 to 90 degrees.

## 6. Reading Proximity Checkpoints

For reading proximity checkpoints simply hold the reading head of the DUOSTAR close to the checkpoint and activate the collector by pressing the Start key.

## 7. Technical Data

Dimensions (mm) :	45 x 175 x 36
Material:	PC
Power supply:	3 V (two AA type Alkaline Batteries)
Weight:	approx. 200 g with Batteries
Storage capacity:	Up to 6000 checkpoints
Temperature range:	-20 ... +70° C

## 8. Handling instructions

The DUOSTAR is a rugged data collector which combines advanced features with exceptional levels of reliability and durability. However, care should be taken not to drop heavy items onto the DUOSTAR or drop the unit repeatedly (or from excessive heights) onto hard surfaces.

## 9. Placing the Proximity and Barcode checkpoints

The proximity and barcode checkpoints used with the DUOSTAR data collector can be positioned almost anywhere, though for optimum reading performance we recommend the following guidelines to be considered prior to their placement:

For positioning of the barcode checkpoints, it is recommended that they are placed away from direct sunlight and extreme weather conditions.

For positioning of the proximity checkpoints, it is recommended that they are placed away from sources of magnetic interference (for example PC monitors) and that they are not placed directly onto metal surfaces.

## 10. Regulatory notices / Zulassungen

### Europe / Europa

Hereby, deister electronic GmbH, declares that this equipment, if used according to the instructions, is in compliance with the essential requirements and other relevant provisions of the RTTE Directive 1999/5/EC.

Hiermit erklärt die deister electronic GmbH, dass sich diese Funkanlage bei bestimmungsgemäßer Verwendung in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der RTTE Richtlinie 1999/5/EG befindet.



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