



## BECHRONIZED CERES MINIPROGRAMMER

### 1 Description Ceres MiniProgrammer

Our MiniProgrammer is a handheld device with mainly 3 functions:

1. Read the transponder number (read mode)
2. Program the transponder number (program mode)
3. Verify the transponder battery level (read mode)

### 2 Use Ceres MiniProgrammer

#### 2.1 Turning on/off the device

At the top of the device you will find a switch to turn it on or off.

Once the device has been turned on, it will automatically be in read mode providing you the battery level/charge of the device itself.

#### 2.2 Read mode

When the device is turned on and in read mode, approaching a transponder to the device or vice versa (5 to 10 cm) will give you the transponder number and the transponder battery level going from 4 to 1:

- 4 : transponder battery slightly overloaded but still fine
- 3 : transponder battery at optimal level/charge
- 2 : transponder battery/lifespan decreased
- 1 : battery lifespan reduced to 6 months to 1 year depending on its frequency of use

#### 2.3 Program mode

Follow these steps to program a transponder:

- Turn on the device (it's automatically in read mode)
- Enter the desired transponder number on the device (from 1 to 999999)
- Approach the transponder to the device or vice versa (5 to 10 cm)
- Press on the PGM button to complete the handling
- Your transponder is programmed and the device returns directly in read mode

#### 2.4 Charging the device

To recharge the MiniProgrammer (20 hours of use with 1 loading charge), you need to plug it to your computer (USB port) or a USB charger with the supplied cable. The device must be turned on for it to recharge.

### 2.5 Important notes

- **Never store the MiniProgrammer turned on together with the transponders.** This would continuously activate/wake up the transponders which would prematurely empty the batteries of the transponders
- The MiniProgrammer has also a loop number like the classical loop boxes which you will find along the track
  - This number is standardly programmed on number 1
  - This number can be changed by pressing the F1 function button on the device and by following the provided instructions
  - **If the device doesn't read any transponders anymore, check its loop numbering which may have been changed by mistake**

### 3 The Ceres MiniProgrammer in pictures

