



User manual

Emit eLink

ver. 1.02



This manual covers Emit eLink, which is used to receive and forward data from emiTags to Emits Internet server. eLink does not activate the emiTags itself, but receives data from the emiTags, after punching on a TFP-unit. The data is stored locally and forwarded via GPRS to Emits Internet server.

eLink can also be used to forward data from regular e-cards, if used together with an Emit eControl (ePost).

eLink is therefore particularly suitable for getting online passing times in orienteering events, using TFP controls or eControls.

Supplied equipment:

eLink is delivered with the following equipment included:

- Carry Case
- USB cable
- This manual

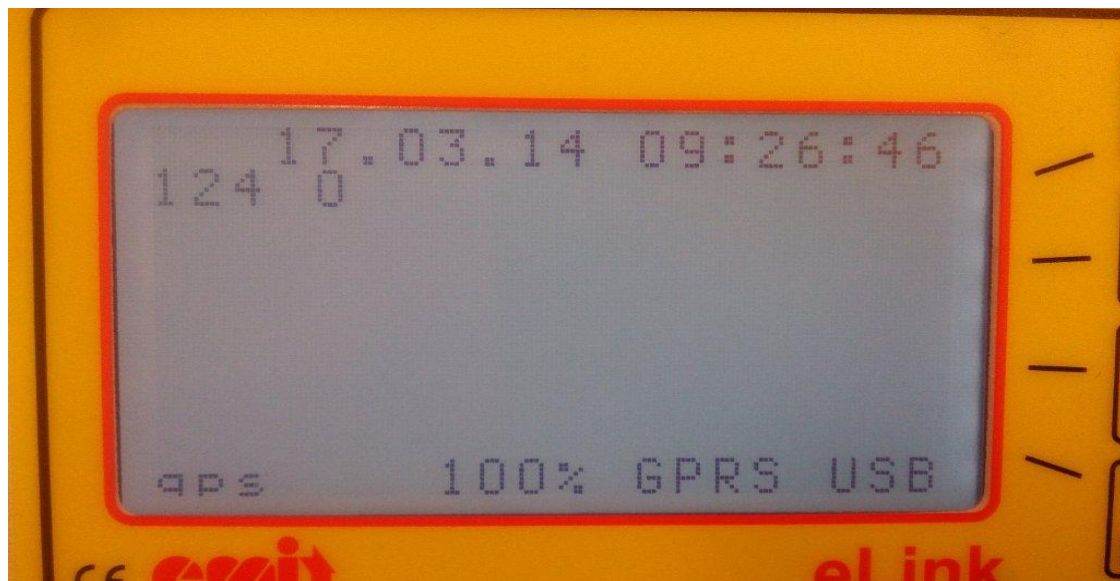
Charging/batteries:

eLink has four NiMh 2000 mAh rechargeable batteries. The batteries are charged by connecting the supplied USB cable. Full charging of the batteries takes about 15 hours. When eLink is fully charged, it has battery capacity for 24 hours / 5,000 passes.

Surroundings

Although eLink can withstand a lot of weather and wind, it's not 100% waterproof, so make sure there's no water coming under the lid. The application range is down to -20 degrees C, and eLink is supposed to be able to stand outdoors in rain and snow as long as the lid is closed.

THE DISPLAY



The eLink's display has nine lines with up to 20 characters.

In operating mode the display shows :

- Date and time (first / top line)
- Control code (three first digits second line)
- Number of passings (fourth digit second line, after code)
- Passings, last passing on top (lines 3 to 8)
- Status bar (bottom line)

Status bar

The bottom line of the display shows the status of the most important features of eLink;

GPS, battery status in %, GPRS/data connection and USB.

For GPS and GPRS the following applies;

Small font: The function is turned off / deactivated

Flashing font: Trying to connect

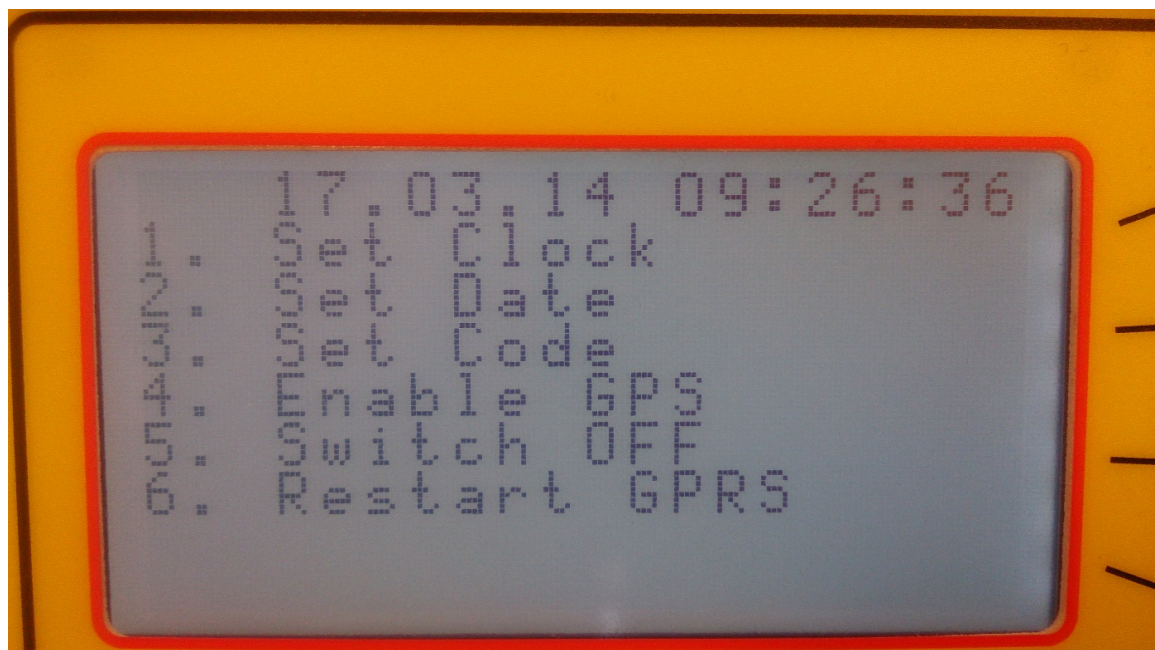
Large font: Works OK/Contact created

“USB” is displayed when charging, ie when connecting a USB cable.

Four keys on the right hand side of the display control variable menu selections. In addition, the keypad has numeric keys, as well as four fixed keys:

- 'Menu' - Enter or exit menu mode
- 'Clear' – Delete last character or exit from menu
- 'On/Off' - Turn eLink on or off (press and hold for five seconds to turn off)
- 'Enter' - Accept selection

THE MENU SYSTEM



Pressing the "MENU" key will display the main menu in the display. The text is in English and contains the following menu options

- 1) Set clock - Set the internal clock
- 2) Set Date - Set the internal date
- 3) Set Code - Set the control code for eLink (should match the TFPs code)
- 4) Enable / Disable GPS - Turn GPS on/off
- 5) Switch OFF - Turn off
- 6) Restart GPRS - Reconnect GPRS-connection

Clock and date

The internal clock and date are set using the number keys and 'Enter' to confirm.

Code

eLink only accepts passings on the given control code. Therefore, remember to give eLink the same control code as the TFP/eControl.. Enter the control code with the digit keys (three digits), followed by 'Enter'.

GPS

If GPS is enabled, the clock and date will be set when the GPS has fixed its position. Standard time zone is of course Europe / Oslo. eLink automatically adjusts the clock for daylight saving time if GPS is enabled.

Unfortunately, it is not possible to change the time zone in today's version of eLink.

GPS is activated/deactivated through MENU + 4.

Turn on/off

To turn eLink on, press ON/OFF for about one second.

To turn off, you have two choices:

- 1) Menu + 5
- 2) Press and hold the ON/OFF-key for 5 seconds

SIM card

It is not possible to change SIM cards in eLink. We have chosen to go for special SIM cards that are mounted directly on the motherboard. This is to eliminate the problem of plastic SIM cards that are altered at varying temperatures.

The cards we use are delivered by Telenor Norway and it is not possible to choose other operators as of March 1st 2014. In the future, however, this should be possible.

eLink and connection to a PC by USB

Before connecting eLink to a PC via the USB cable, you must install a USB serial port driver. The USB driver is installed by downloading and installing the driver from:

<http://www.ftdichip.com/Drivers/VCP.htm>

A virtual com port appears that appears in the control panel when connecting external equipment. When the device is not connected (or not turned on), this com port will not be visible. This is common with connection via USB. This com port typically gets the designation com3 or com4, depending on how many com p ports are already installed on the PC. If you want to keep the same com port anytime, connect the eLink to the same USB port on your PC next time.