

Eider Control

USER MANUAL



INTRODUCTION

The Eider system provides a method of delivering punch data from remote controls wirelessly for safety or commentary purposes. The system comprises the Eider Control unit and Eider Terminal hardware.

Using the GSM network and GPRS data, the Eider Control unit allows flexibility on remote radio controls, including sending data directly to the internet for live web results.

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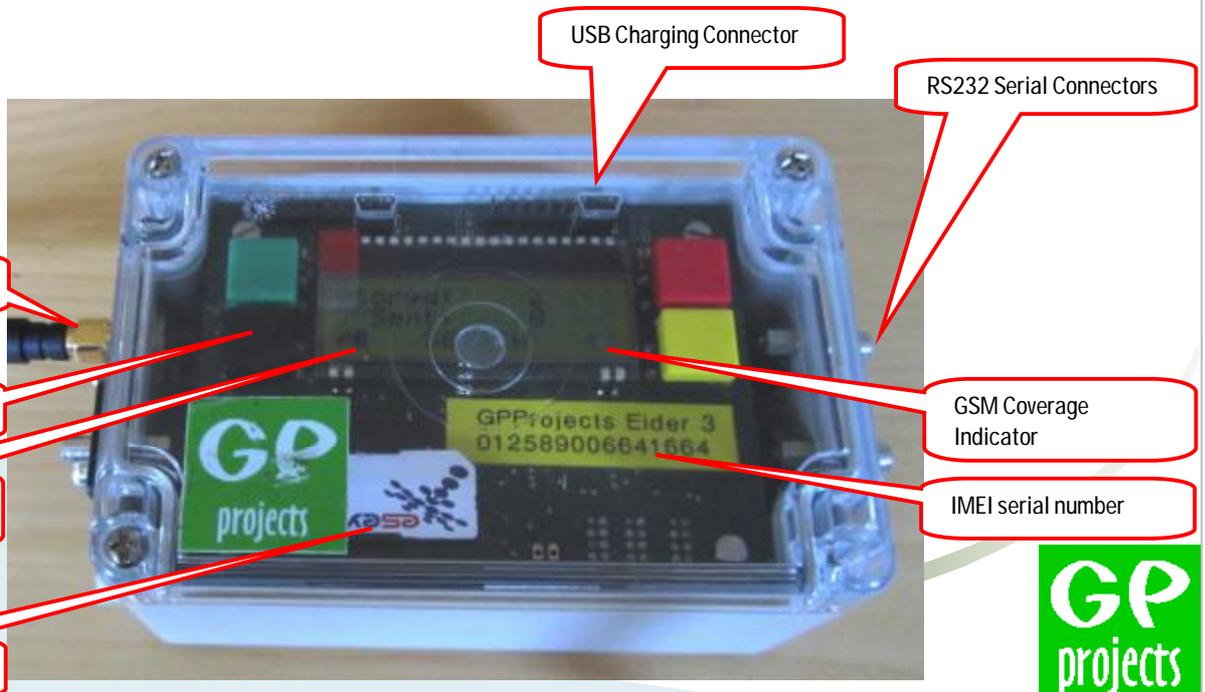
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EQUIPMENT

When the Eider Control unit is rented from GPPProjects, the following equipment will be supplied:

- ~ Eider Control 3 input unit
- ~ Charging adaptor
- ~ Antenna

ANATOMY OF AN EIDER UNIT



OPERATION

When programming SportIdent controls, ensure that 'Autosend' is enabled, the baud is set to 4800, and extended mode is NOT selected.

The default screen for the Eider unit shows the status of the device.



Stored: Indicates the number of punch records received / stored

Sent: Indicates the number of punch records transmitted to the server

The bottom edge of the LCD indicates the status of the battery, the connection status and the signal strength of the GSM network:

- x not connected
- █ full signal

Note the signal strength indicator is only valid when the GSM modem is online.

The network status can have the following states:

- ~ OFF-LINE – The GSM modem is powered off
- ~ SEARCH – The GSM modem is searching for a network
- ~ ONLINE – The Eider unit has registered on a network, but no network name is available

- ~ ROAM – The Eider unit has registered on a network, but no network name is available
- ~ DENIED – The Eider unit has been unable to register on a GSM network
- ~ STAT TX – A status message has been sent
- ~ GPRS – The Eider unit has successfully connected to the GPRS network.
- ~ Or, the name of the network the Eider is registered with.

CHARGING

Remove the waterproof lid on the Eider unit by releasing the 4 screws (turn by 90 degrees).

Switch on the Eider unit using the external battery isolate switch. Connect the charging adaptor to either of the 'Mini-USB' socket inside the Eider unit.

Within 30 seconds the battery indicator on the screen will indicate the battery is charging. The green charging indicator will also light up.

In the event that the red error charge indicator becomes lit, unplug the charging adaptor then reconnect. If the error continues, please contact GPPProjects.

Once the Eider Control unit is fully charged the green indicator will go out. The battery may take up to 6 hours to charge fully.

CONFIGURATION SET UP

Eider is based on a menu configuration system. The four buttons have consistent functions within each menu:

- ~ Black: Move to next menu
- ~ Green: Restore setting to factory default
- ~ Red: move the setting up
- ~ Yellow: move the setting down

MENUS

Hardware

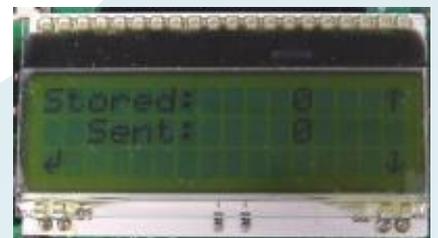
This menu selects what hardware is connected to the RS232 serial input (SportIdent or EMIT)



Flash Status

Indicates the current status of the record archive memory, including the number of records received from the radio control ('stored') and transmitted ('sent') to the server.

Adjusting the 'Sent' number down will force the most recently received records to be resent.



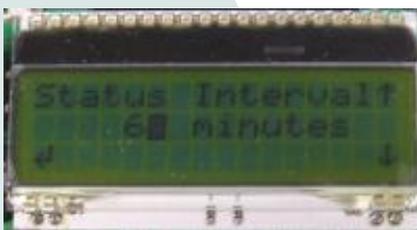
Boot Count

The boot count is a number that helps in time correction. Normally it does not need to be changed. However should you need to reset the flash, the green button pressed at this menu will reset both the 'Stored' and 'Sent' counters to zero and return you to the previous screen for confirmation.



Menu Status Interval

The Eider Control unit will automatically send a status message if there have been no punch data received for the time selected. This allows the base to know if it has received all the data packets and the current status of the Eider unit. To disable this feature set the interval to 0 minutes.



Menu Maximum Time Offline

If the Eider Control unit is offline, it is unable to receive communication from the server (e.g. to re-request missing punch data). When the Eider unit has been offline for the period of time selected, it will come online to communicate with the server. The unit will stay online if the time is set to 0.



Stay Awake Time

The Eider unit will remain online for the defined period after sending a record. When using power saving settings this allows the server to communicate with the Eider unit.



AT THE CONTROL SITE

When the unit is charged and it is set up as required remove the charger, switch off the unit and replace the lid. Ensure the screws are turned 90 degrees to maintain the waterproof seal.

At the control site, attach the radio control(s) to the Eider unit, and switch it on. The screen will go through the welcome messages to the base view. Check battery status and network signal detection (this may take a minute or two).

Punch radio control, and watch the 'Stored' count increment. If more than one radio control is attached, punch every one. The 'Stored' count will include status updates, so may show a number greater than the number of punches – check every punch makes a corresponding 'Stored' count increment.

Watch the Eider unit find a network and send the data – the network status will change to 'GPRS SEND' and the 'Sent' number will increment to the same number as 'Stored'.

Using cable ties through the plastic loops on the back of the Eider Control unit, attach it securely to the stake.

Neatly gather any loose cable into the stake and secure with cable ties. If more than one control stake is used, either dig-in the cable or locate the two stakes back to back so that competitors cannot trip over, or damage, the cable.



FAQ

Q. I am not receiving data back from my radio control, what should I do?

A. Check the Eider and radio controls are on. Check the Eider battery level, network status and 'Stored'/'Sent' status of punch data.

A. If punching the radio control doesn't cause the 'Stored' number to increment, check the connection(s) between the radio control and the Eider unit, next check that the Eider unit is set to receive data from the correct radio control type. Lastly confirm the radio control hardware is programmed for autosend.



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