



GSM-R Handheld Mobile Phone Guide

Basic Instructions for use

GSM-R Mobile Handset Basic Instructions Page One of Three

These are extracts from the various instructions, showing the most important ones to start using them.

IMPORTANT

(From NRT operations centre)

The handsets are to be carried on the operator AT ALL TIMES.

Improper use of GSM-R can have serious consequences for the operation of the network and the safety of the people on the rail network.

If stolen OR mislaid you MUST IMMEDIATELY call the Telecoms Operation Centre on 01782 574 624, and give them the mobile number, the SIM card (IMSI) number and the serial number. The handset will then be blocked. You MUST then report it to BT Police if stolen on 0800 40 50 40.

See page two for specific phone security details.

The handsets use the GSM-R network and are solely for Network Rail use ONLY, this means they are for calling signalboxes, the ECO or Route Control.

They are STRICTLY NOT for personal use.

- **Handset Number:**

The handset number is a unique 11 digit 'MSISDN' GSM-R number that can only be dialled by a GSM-R terminal in a GSM-R equipped signalbox, or another GSM-R handset. It can be used for line blockages but only with signalboxes with a GSM-R terminal as non GSM-R equipped signalboxes cannot call it back.

- **Basic Handset Functions:**

On turning on the handset for first time (or if the battery dies), a PIN No is required. If the PIN is incorrectly entered after 3 attempts, the SIM card is blocked and will require a PUK code by request from GSM-R helpline on **01782 463 214**.

- ❖ Most functions are disabled at the moment as the system is in its infancy, therefore you can only alter the date/time, brightness and store, edit or delete numbers until further notice.
- ❖ The red emergency button on the top is working but not live. In future this may be used for stopping trains in emergency by means of an emergency broadcast.
DO NOT USE it until further notice as it may be connected at any time without prior notice. If you do accidentally activate it (and it connects after go live), you must tell the controller that it is a false activation or trains may still be cautioned until it is confirmed there is no actual emergency.
- ❖ The side green button is for push-to-talk (PTT), but is disabled for future use, except for unlocking the keypad (see below).
- ❖ The yellow button is also disabled.
- ❖ The two black side buttons are to turn the volume up and down.
- ❖ SMS messages are only for sending to signalbox GSM-R terminals only.
- ❖ To lock the keyboard, press navigation arrow up then asterisk button. To unlock: press the green button.

- **Conversation Protocol:**

There is no need to use radio speak such as 'Over' or 'Out' etc, **unless** you are making an emergency broadcast using the red button (when this is activated in future), then proper 'radio' protocol is required.

- **Coverage:**

Remember the GSM-R uses the digital service from the masts at the side of the track, so if moving away from the trackside, you will lose the signal. Where the signal is lost at the trackside, this must be reported as a fault to NRT on **01782 574 624**.

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- **Calling Signalboxes:**

There are various ways of calling signalboxes;

- ❖ Via the BT number via selecting from the phone book (stored on internal SIM card). *Note: this will call the signaller's BT phone and not his GSM-R terminal.*
- ❖ Via the GSM-R 8 digit number beginning '74' (stored on internal SIM Card from numbers on page three), or by the same '74' number on the white retro-reflective line-side boards.
- ❖ Or by dialling **1200** from the handset which will automatically connect you to the nearest* signalbox.
- ❖ Via the 12*** 'short code' number. This is a shorter more convenient way as alternative to the '74' numbers developed primarily for train drivers – see useful numbers on page three.
- ❖ It should be noted that all calls are recorded to assist in incident/accident investigation.

**Be aware that where one line crosses another or where control areas cross boundaries, the handset may dial the incorrect box to which you require. If that happens, dial the '74.....' number, short code number or the BT number from the SIM card.*

- **Calling the Handset from a GSM-R equipped signalbox:**

ONLY signalboxes with a GSM-R terminal can call back the handset. To call back the handset the last six digits is inputted plus the prefix number 8, for example '8831123'. It is recommended to call the signalbox first (if calling for first time) and get the signaller to use last number redial, this will also check the comms.

Normal BT phones or mobile phones cannot call a GSM-R phone; therefore you cannot use your GSM-R number in taking a line blockage with a non-terminal signalbox as they cannot call you back.

The handset will call normal BT and mobiles, but the number will be withheld.

Only internal numbers beginning 085 can be called from the handset, by first prefixing it with '901'.

- **Charging the Handset:**

A unique charger is used to charge the handsets (see full instruction manual on supplied CD).

A car charger is available. The mains power and car charger adaptors are different – the mains cable will not fit the car charger adaptor and vice versa.

Last person to use the handset at the end of the day is to ensure it is put back on charge for the next user.

- **Location Based Quick Dial Numbers:**

The following numbers automatically dial the local services depending on your location:

Nearest Signalbox*:	1200
Route Control:	1300 <i>In an emergency only</i>
Controlling ECO (For OHLE areas only):	1400 <i>In an emergency only</i>

- **Handset Security Details:**

To be used if reporting handset stolen or mislaid. Make a note in the spaces provided for reference.

<u>Handset one security details:</u>	
PIN No: _____	
Serial Number: _____	
Unit IMEI No: _____	
IMSI (SIM CARD): _____	
PUK Code: (only requested if handset blocked)	

<u>Handset two security details:</u>	
PIN No: _____	
Serial Number: _____	
Unit IMEI No: _____	
IMSI (SIM CARD): _____	
PUK Code: (only requested if handset blocked)	

