



Short Messaging System

User's Guide

VERSION 1.00



DATA SCOUT SA (Pty) Ltd

Contact detail for assistance

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Amendment history

Revision	Date	Change request	Change comment
1.0	2009-04-07	New document	First release
1.1	2011-01-05	Updated document	Reflect latest screens and functionality

Legal Information

Notice

Information in this document is subject to change without notice. Data Scout SA (Pty) Ltd makes no warranty of any kind with regards to this material, including, but not limited to, the implied warranties of merchantability and fitness for purpose. Data Scout SA (Pty) Ltd shall not be liable for errors contained herein or for incidental or consequential damages in connection with the use of this material. No part of this document may be photocopied, reproduced, or translated to another language without prior written consent of Data Scout SA (Pty) Ltd.

Limited Warranty

Data Scout SA (Pty) Ltd warrants that the Mercury product will be free from defects in material and workmanship for a period of one (1) year from date of purchase. During the warranty period Data Scout SA (Pty) Ltd will, at its option, either repair or replace products that prove to be defective. If a defect exists, at its option Data Scout SA (Pty) Ltd will repair the product at no charge, using new or refurbished replacement parts, or exchange the product with a product that is new or which has been manufactured from new serviceable used parts and is at least functionally equivalent to the original product. A replacement product assumes the remaining warranty of the original product or 90 days, whichever is the longer for you. All Hardware (or part thereof) that is replaced by Data Scout SA (Pty) Ltd shall become the property of Data Scout SA (Pty) Ltd upon replacement. Data Scout SA (Pty) Ltd does not warrant that the operation of the equipment or firmware will be uninterrupted or error free.

For warranty service repair the product must be returned to a service facility designated by Data Scout SA (Pty) Ltd quoting the information contained in Section. Failure to do so could invalidate or delay warranty repair.

Limitation of Warranty

The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by the Buyer, Buyer-supplied software (scripts) or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper installation.

Except for the one (1) year limited warranty specified herein, the product is provided “as-is” without any warranty of any kind including, without limitation any warranty of merchantability, fitness for a particular purpose and non-infringement. If any implied warranty shall be limited to ninety (90) days. Except as expressly covered under the limited warranty provided herein, the entire risk as to the quality, selection and the performance of the product is with the purchaser of the product.

To the maximum extent permitted by law, Data Scout SA (Pty) Ltd is not liable under any contract, negligence, strict liability or other legal or equitable theory for any loss of use of the product, inconvenience or damages of any character, whether direct, special, incidental or consequential (including, but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, loss

of information or data contained in, stored on, or integrated with any product returned to Data Scout SA (Pty) Ltd for warranty repair) resulting from the use of the product, relating to warranty service, or arising out of any breach of this limited warranty, even if Data Scout SA (Pty) Ltd has been advised of the possibility of such damages.

The sole remedy for a breach of the foregoing limited warranty is repair or replacement of the defective or non-conforming product.

Governing Law

The laws of South Africa shall govern this one (1) year warranty. Some countries do not allow the exclusion or limitation of incidental or consequential damages or exclusions or limitations on the duration of the implied warranties or conditions. The above limitations may not therefore apply to you. This warranty gives you specific legal rights, and you may also have rights that vary by country.



BEFORE APPLYING POWER TO THE EQUIPMENT

The user must read all instructions. If in any doubt, consult suitably trained service personnel.

General Safety Warnings

- a) No user serviceable parts inside. Refer servicing to qualified service personnel.
- b) The equipment contains one replaceable fuse.
- c) Retain the safety and operating instructions for future reference.
- d) Observe all warnings on the equipment and in the operating instructions.
- e) Follow all operating and user instructions
- f) Connect the equipment to a power supply only of the type described in the operating instructions or marked on the equipment.
- g) The antenna unit should be located away from power lines.
- h) Maximum permissible exposure (MPE) limits – This equipment complies with FCC (OET bulletin 65) general population/uncontrolled exposure limits as applied to RF energy from a Mobile device. (A mobile device being defined as a transmitting device designed to be used in other than fixed locations and to be generally used in such a way that a separation distance of at least 5 centimeters is normally maintained between the transmitter's radiating structures and the body of the user or nearby persons.)

Limitations on intended operating environment

The Mercury can be used in a wide range of control and monitoring applications. When third party equipment is attached, such third party equipment and all cabling must be of suitable design and installation to ensure that the overall system complies with the requirements of the appropriate CE directives.

Guidance notes for the installation and use of the Condor must be strictly adhered to.

Data Scout due diligence to ensure that the equipment is suitable for use in stated applications, but ultimate responsibility for the compliance of a complete system must rest with the prime contractor at a site where local conditions may require additional EMC precautions be taken.

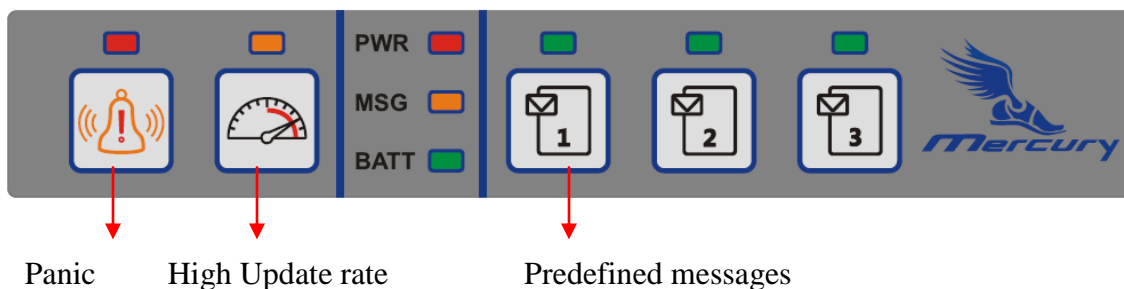
WARNING: Changes or modifications to this unit not expressly approved in writing by the party responsible for compliance could void the user's authority to operate this equipment.

Available functionality

Using Mercury you have access to the following functionality:

- 1) Send and receive text messages to and from mobile phones, e-mail or iTrac.
These messages are almost unlimited in length.
- 2) Creating text messages of (currently) over 250,000 characters
- 3) Quickly send previously defined standard text messages
- 4) Easy access to incoming messages
- 5) Capturing waypoints – these will also be made available remotely when using the DataScout “ iTrac” software
- 6) Request Weather reports (METAR / TAF)
- 7) Administrate Condor / Badger tracking devices

Front panel layout



PWR: Power on

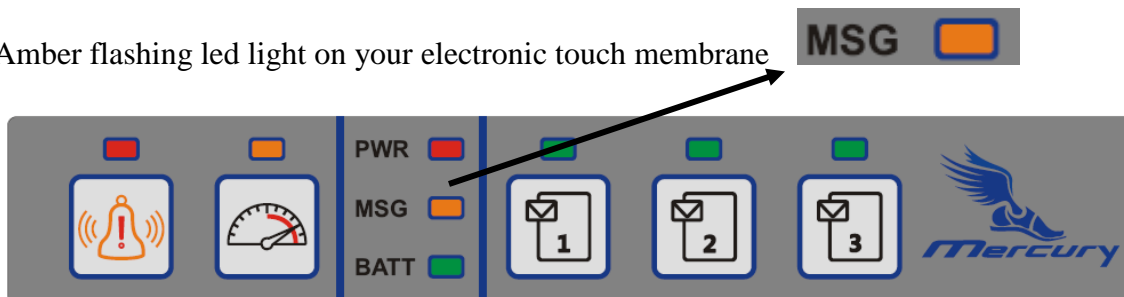
MSG: New message received

BATT: Low battery warning with units that are equipped with back up battery supply.

Incoming Messages

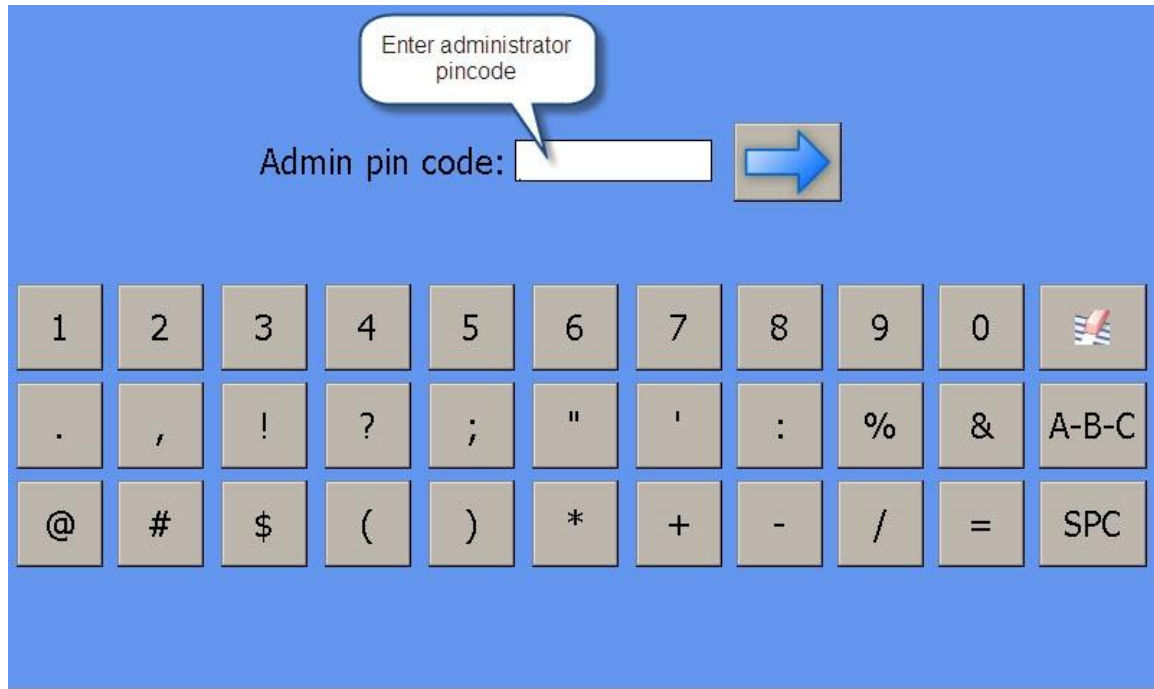
When receiving a new message the amber led light will flash on the electronic touch membrane.

Amber flashing led light on your electronic touch membrane



Tap on the “Inbox” icon in the main screen to read your message.

Login Screen



This screen will appear as soon as the system is ready. It will stay open for approximately 30 seconds after which the main menu screen will appear.

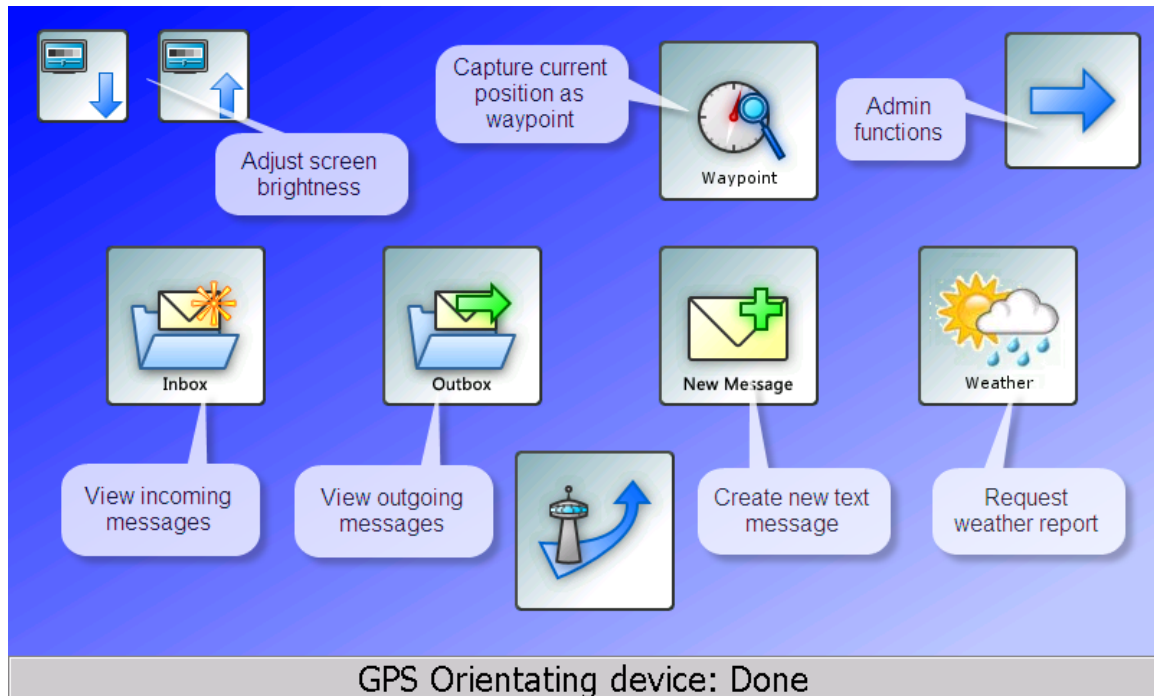
Tap the forward button to skip the pin-code entry.

Enter the pin-code as given by your System Administrator to allow you to access certain restricted functionality.

Owners of the system can decide if they will allow the user to access this configuration.

Entering the correct pin-code allows the system to be configured with new settings, software upgrades, debugging and a host of other technical settings.

Main Menu



While starting up certain icons will be grayed out, this means that the system is not ready yet.

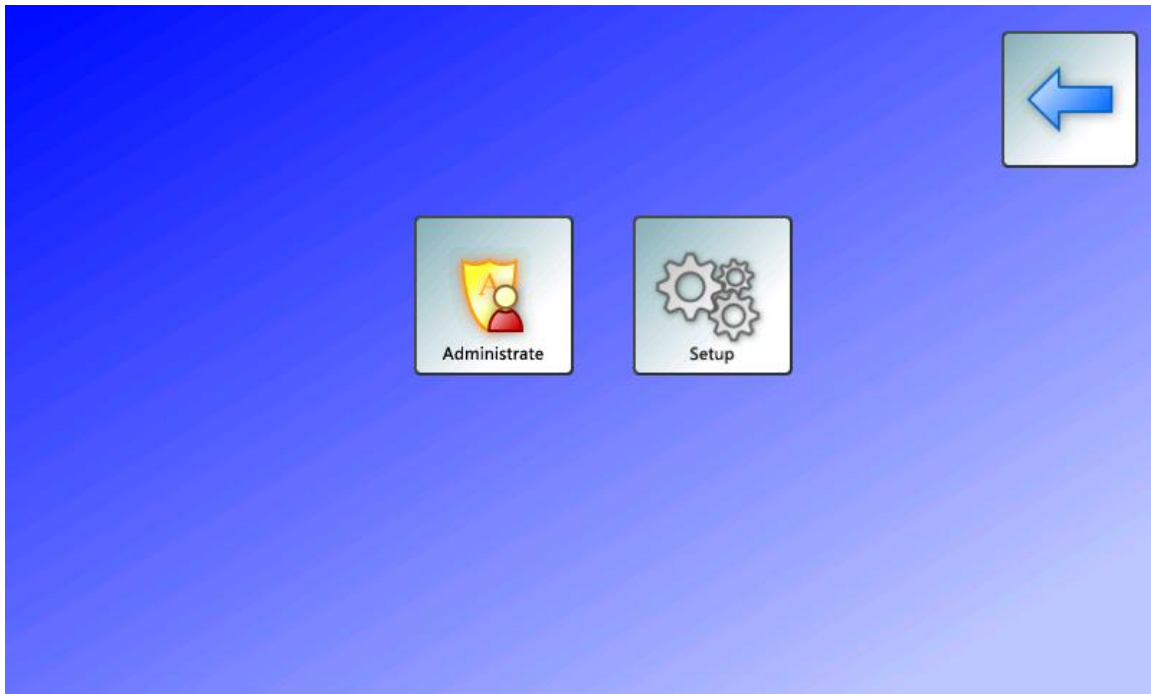
Wait until the status message at the bottom of the screen changes to “System ready”. All function icons will now be available for use.

Using your finger, or a supplied soft-tipped stylus, tap the desired icon to launch the functionality.

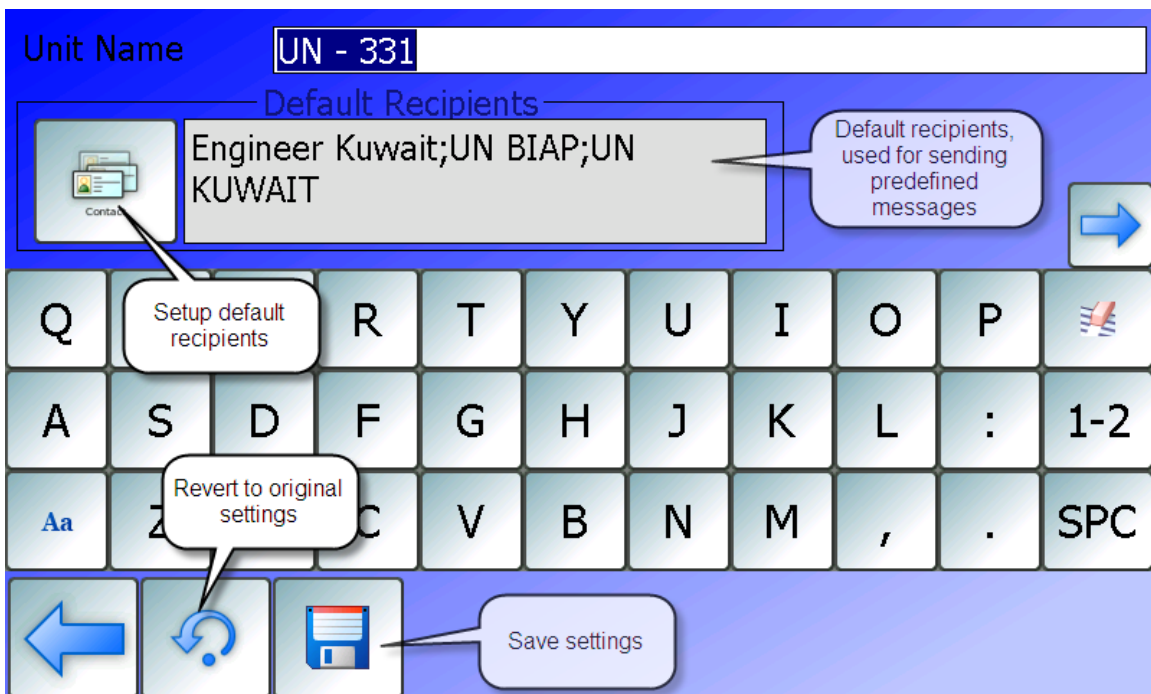
DO NOT USE ANY SHARP INSTRUMENT FOR TAPPING AS THIS WILL DAMAGE THE UNIT’S SCREEN AND VOID YOUR WARRANTY.

Basic settings

Before use, you will need to configure certain default settings on the unit. Tap the “Admin functions” indicated above. On the next screen, tap the “Setup” icon.

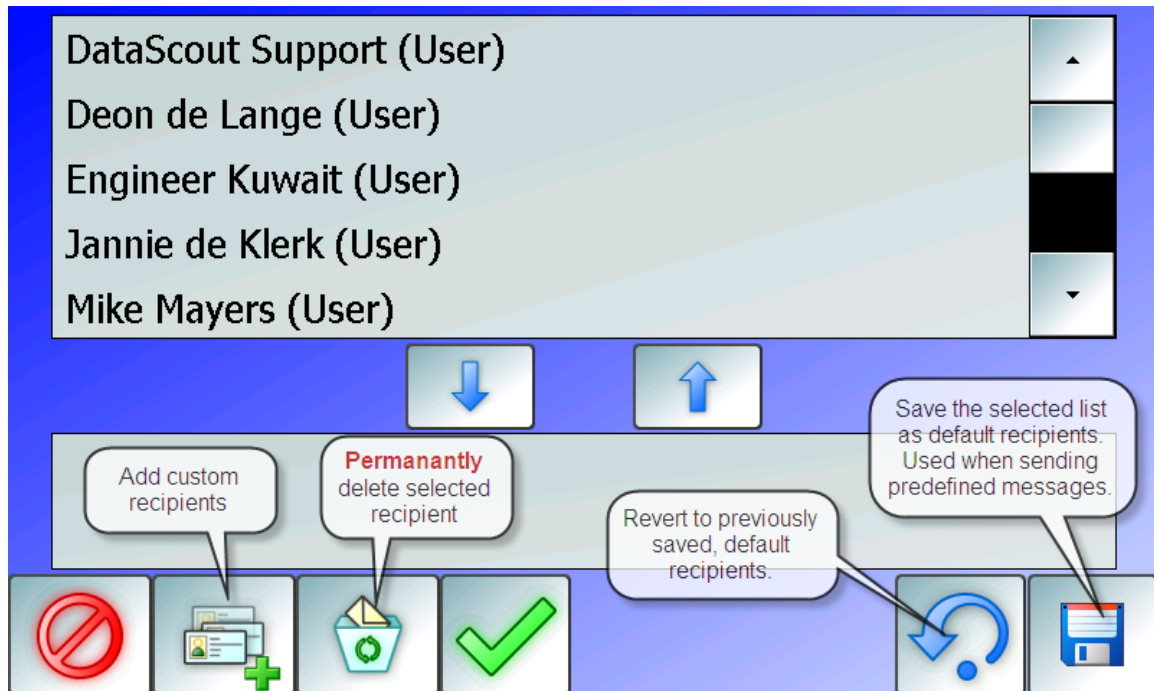


On the Setup screen enter a name for the unit – this will be used in certain system messages sent. Also select the list of default recipients to use when sending predefined text messages. When finished entering the detail tap the “Save” icon, tapping the “Revert” icon will restore all settings as previously saved.



Recipient selection

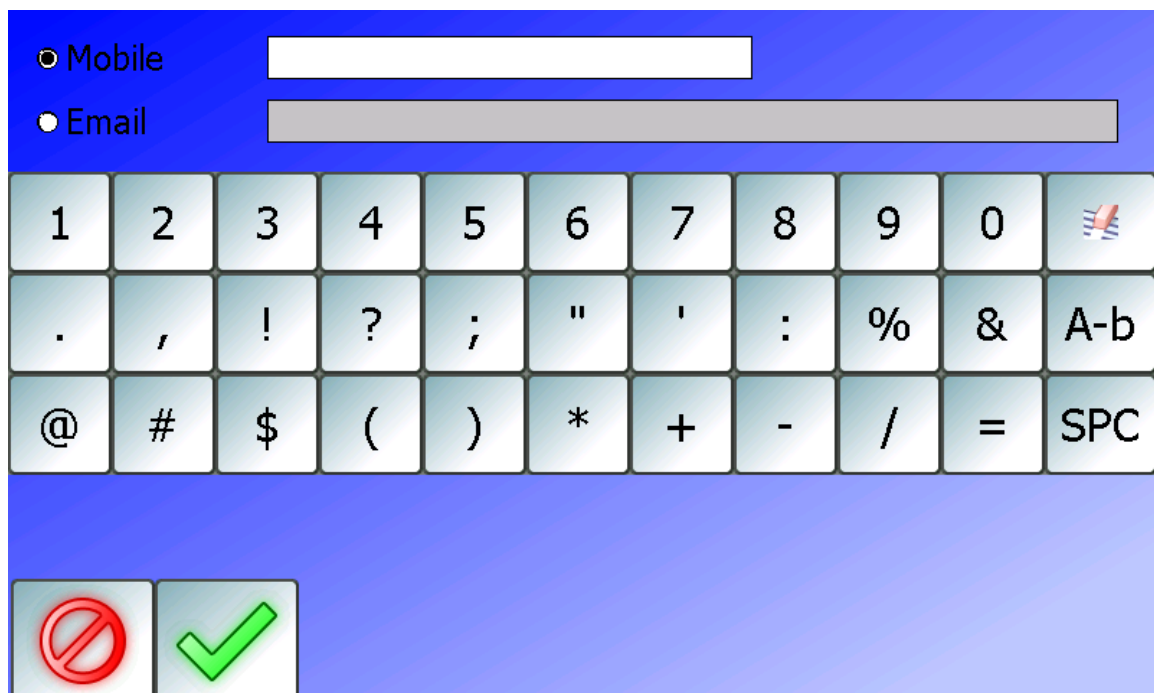
Use the Recipient selection screen to select a list of recipients. This will determine who will receive your text messages.



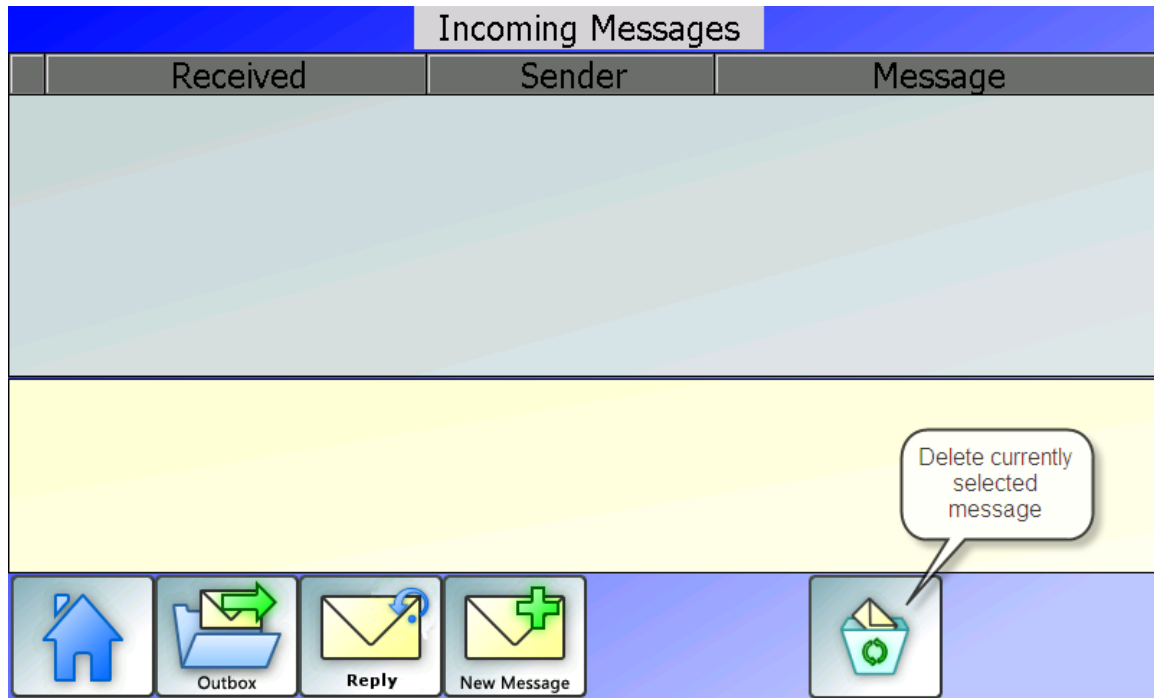
CUSTOM RECIPIENTS

You may define additional, custom recipients. This functionality will be blocked, unless you are given the correct pin-code to log in with.

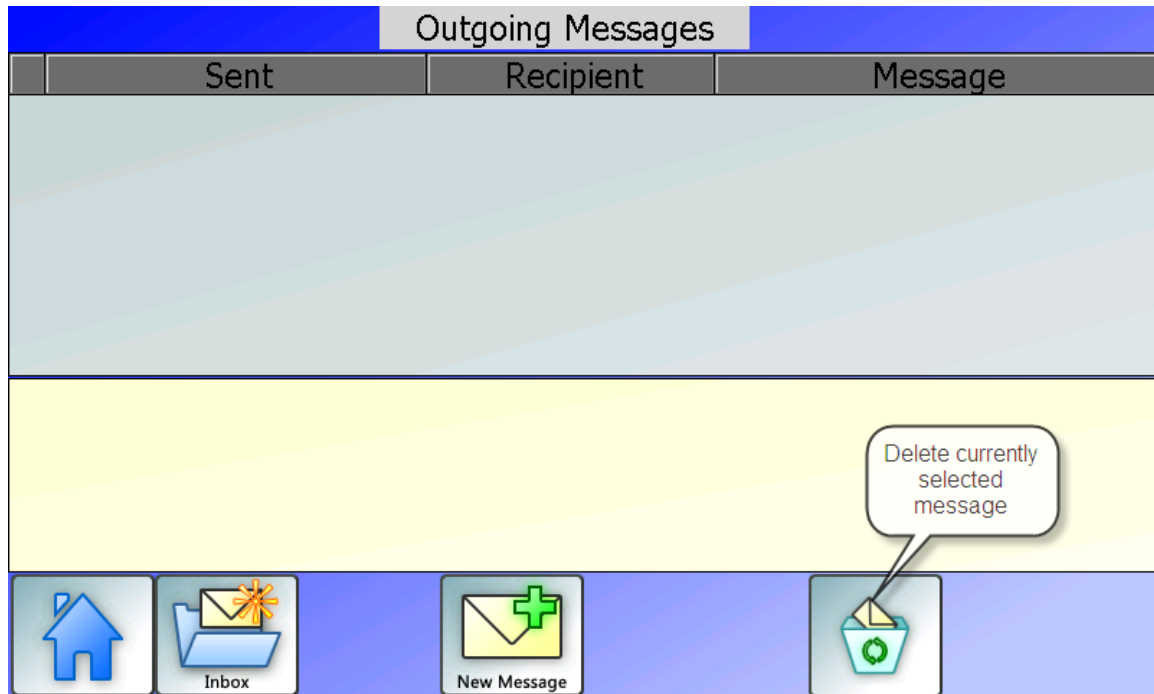
Recipients may be defined using an international format mobile number, or an e-mail address.



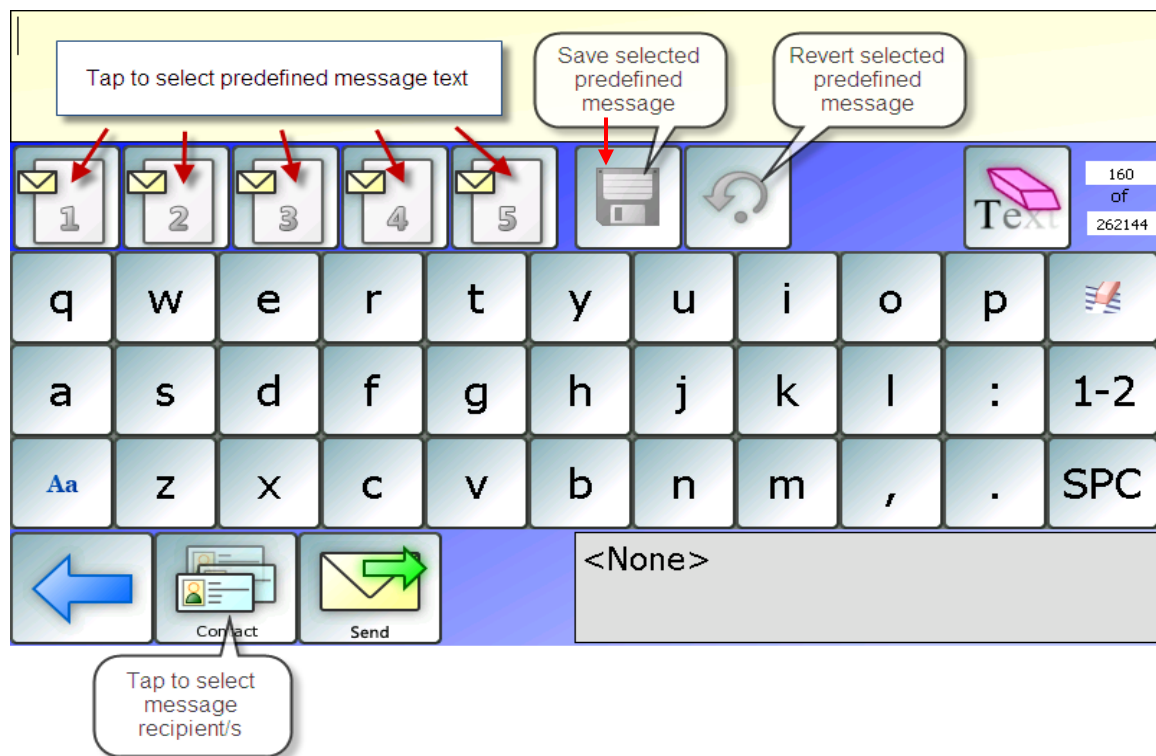
Incoming Messages



Outgoing Messages



New Message



Enter the message and tap “Contact” icon to select the intended recipients.

Once a message has been sent, the Outbox screen will inform you about the state of the message transmission.

SENDING PREDEFINED MESSAGES

By pressing one of the 3 predefined buttons on the unit’s front panel you may send predefined messages to a list of preset recipients. You can create these customized messages by tapping any of the 5 predefined message icons as shown above. This will allow you to type the message that you want.

After the message has been typed, press the “Save” icon next to predefined message icon 5. By tapping the “Revert” icon, the message will return to its original content.

Take note that the 3 messages on the front panel will be the same as the first 3 on your touch screen.

Waypoint capture

Use the “Waypoint” icon to capture your current GPS position as a waypoint on the unit.

Name	2011/01/15 04:50:33									
ICAO		(Weather Station code)								
Latitude	-25.81010					Longitude	28.33715			
Q	W	E	R	T	Y	U	I	O	P	
A	S	D	F	G	H	J	K	L	:	1-2
Aa	Z	X	C	V	B	N	M	,	.	SPC
										

The waypoint must be given a name, and an optional ICAO (International Civil Aviation Organisation) code may be entered.

Enter the closest known weather station’s ICAO code to enable you to use this waypoint to request a Weather report.

This captured waypoint will also be made available on the iTrac Control room software.

Weather Report Request

Please avail yourself of the Legal limitations placed on the use of the unit. DataScout does not accept any responsibility for the accuracy, correctness or applicability of any Weather reports requested from and received on the unit.

Weather reports will be requested from an international weather service and the **requests may take a few minutes before it becomes available.**

Weather Reports	
ICAO	Date
ORBM	2010-12-22 23:55:00
ORBI	2011-01-09 16:00:00
OJAM	2011-01-09 16:00:00

ORBM 222355Z 07001KT 9999 FEW200 06/03 A3012 RMK SLP201 56003

Add a new request
Request a refresh on currently selected report

Previously requested Weather reports

REQUESTING A NEW WEATHER REPORT

Tap the “Add a new request” icon to open the screen.

By entering an ICAO code or Waypoint / Airport name, or, the first part of it, the list of entries in the left-hand view will be narrowed down.

Name	ICAO	Dist
Zarqa	OJ38	4029 N
King Faisal	OJ39	3914 NM
Shaheed Mwaffaq	OJ40	4020 NM

Select to change search criteria

ICAO
 Name

Currently searching for OJ

Q W E R T Y U I
 A S D F G H J K L : 1-2
 Aa Z X C V B N M , . SPC