

mcmurdo

EPROG 4

EPIRB PROGRAMMING SOFTWARE

USER GUIDE

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WARNING

This software is provided only to authorised dealers and distributors. It must not be made available to third parties or EPIRB end users under ANY circumstances.

Programming of EPIRBs must be carried out only by an authorised dealer or approved service centre.

The EPIRB is a GMDSS device. Improper use of this software to program an EPIRB could prevent the unit from transmitting in an emergency.

Dealers and Service Agents are reminded that the liability for the correctness of programming lies entirely with the agent providing the service, and that this liability extends to the standard of work provided by all persons employed by, or recognised as providing service by, the agent.

Scope

EPROG4 software enables authorised dealers and distributors to program the range of E3 and G4 brands of 406 MHz EPIRB. Examples of this range include:

McMurdo E3

Pains Wessex SOS Rescue 406

McMurdo G4

Pains Wessex SOS Rescue 406 Precision

Every 406MHz EPIRB must be coded with a unique identity before being delivered to the customer. This must be done by either the manufacturer or dealer; it cannot be done by the customer. The EPIRB and its automatic release mount, if supplied, must be labelled with the unique programmed identity. The EPIRB must be registered with the national authority so that in an emergency the information can be passed to the search and rescue services.

Background

Every vessel is registered to one country known as the vessel's Flag State. An EPIRB is normally programmed with the same Flag as the vessel. Each Flag State is allocated one or more 3-digit numbers (MID number); this number is programmed into the EPIRB together with one of these identities:

Serialised Protocol

This is the simplest programming scheme used. Each EPIRB is allocated a simple serial number, which is then programmed into it. The serial number can be either assigned by the manufacturer or it can be assigned by the registration authority.

MMSI Protocol

This programming scheme programs the vessel's mobile maritime station identity (MMSI) number into the EPIRB. Many large ships have a MMSI number assigned to them by their flag state authority, thus the MMSI protocol automatically associates the EPIRB with the vessel and its registration country. (For example, an MMSI of 278/123000 indicates the flag state number is 278 and the MMSI number is 123000.)

Radio Call Sign Protocol

This programming scheme is used by some countries that do not support the MMSI protocol; instead, they require the radio call sign of the vessel to be used. Many ships already have a radio call sign assigned to them by their flag state radio licensing authority, thus the radio call sign protocol automatically associates the EPIRB with the vessel and its registration country. Radio call signs can be between four and seven characters long and usually consist of letters followed by numbers, for example GKU23.

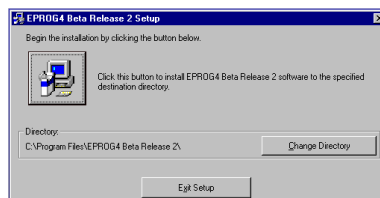
The choice of programming protocol used is often dictated by the registered flag state authority. Some countries only allow serialised protocol, some require only MMSI and others allow all three protocols. Where the choice of programming protocol is imposed by the registration authority, the EPROG4 program will automatically disable the disallowed options.

Overview

Installation

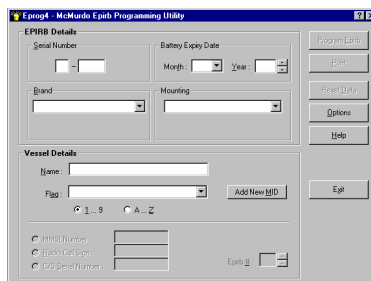
Install software.

This is only done once.



Input data

All data is input on a single form. The software automatically restricts the options available depending on the type of EPIRB and the Flag State.



Program EPIRB

Programming transfers the data to the EPIRB through an infrared link. The EPIRB acknowledges the correct receipt of the data. Programming may be repeated as often as desired to ensure that it has been received correctly.



Print forms & labels

It is extremely important that the necessary documentation is printed. The warranty form includes the labels which must be attached to the EPIRB and, where applicable, to the float-free enclosure. The warranty form must be returned to the manufacturer in order to ensure service.

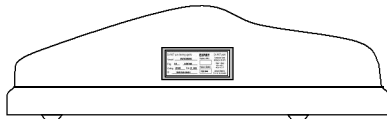
The registration form is also essential, as the information enables the rescue service to identify the vessel transmitting a distress call.

Fit EPIRB rear label

The printed label must be attached to the back of the EPIRB before it is returned to the customer. This label contains vital information which by law is required to be displayed on the EPIRB.

Fit enclosure label

Where applicable, the enclosure label must be fitted to the side of the float-free enclosure.



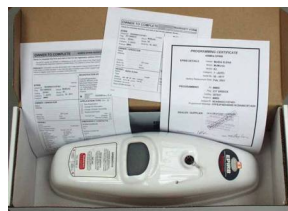
Mark HRU expiry date

The HRU expiry date is marked by removing the appropriate sections of the label.



Pack forms

The EPIRB is packed in its box together with the User Manual and the completed forms.



Installation

This section contains instructions for installing the software and hardware. Please read the section completely before proceeding with the installation.

System requirements

The following minimum standard of hardware and software is required to run the EPROG4 program:

- i IBM compatible PC running either Windows 95, Windows 98, Windows 98 2nd Edition or Windows NT4.
- i Minimum of 32 Mb free memory, 64Mb recommended (Windows NT - 64Mb minimum, 128Mb recommended).
- i SVGA display capable of displaying 800 * 600 pixels or greater with at least 16 colours (256 colours recommended).
- i 10Mb free disk space for the EPROG4 software.
- i Additional 10Mb free temporary disk space for the EPROG4 installation program.
- i Free serial communications port for the programming pen.
- i CDROM drive.
- i Keyboard and mouse.
- i Installed laser printer capable of printing 300dpi on A4/Letter size paper in **black** toner. (Inkjet printing is not acceptable, because of fading under UV radiation.)

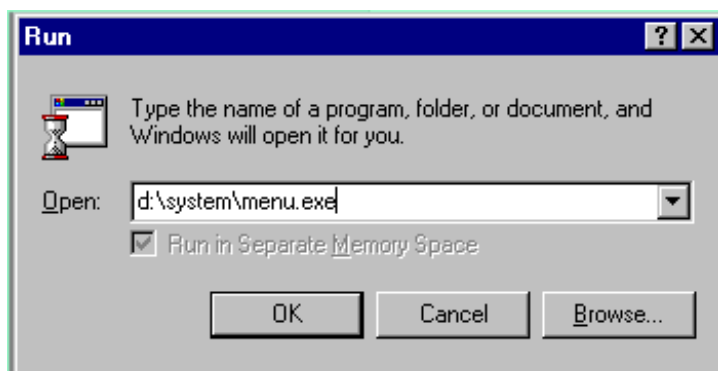
Installing the software

The EPROG4 program is supplied on a CDROM disk.

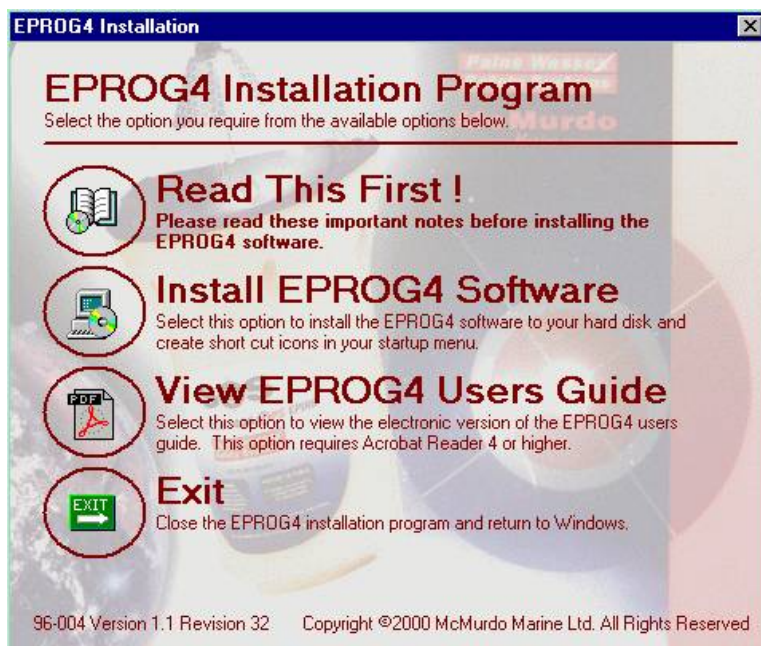
If a previous version of EPROG is installed on the computer, it is advisable to uninstall it (using the **Add/Remove Programs** applet in the **Control Panel**).

To install EPROG4:

- i Load the CD into the drive.
- i The install program should run automatically. If the autorun feature is disabled or the program fails to start for any reason:
 - i Click on the Windows **Start** button
 - i Select **Run...** from the pop-up menu.
 - i When the Run dialog box appears, type **D:\SYSTEM\MENU.EXE**, and click on the **OK** button. If the CDROM drive is E: or another identifier, substitute the correct letter when typing. (Alternatively, click on **Browse...** in the Run dialog box, then select the Menu program on the CDROM from the \System\ directory that appears.)

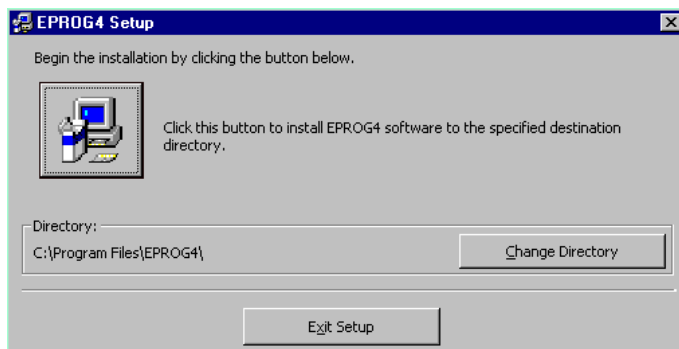


Whichever method is used to start the install program, the Install startup screen will appear. This screen is adaptive. The first requirement is to read the information file.



Thereafter, the installation program either allows a module to be installed, or allows an installed module to run. For full functionality both the EPROG4 software and the Adobe Acrobat reader must be installed.

Follow the on-screen instructions to perform the parts of the installation procedure. Note that to install EPROG4 it is necessary to click on the large button on the left, as prompted in the dialog box.



Connecting the lightpen

The programming pen supplied with the EPIRB programming kit should be plugged into an available 9-pin serial port, preferably COM1 or COM2. The EPROG4 program uses COM2 by default, however it can be configured to use any available port by selecting the **Options** button on the main menu.

If the computer has a 25 pin serial port, a 25 to 9 pin adaptor is required which should be readily available from computer suppliers.

Registration

It is important that the software registration form is completed and returned to Orolia Ltd.

Support will not be provided for unregistered software.

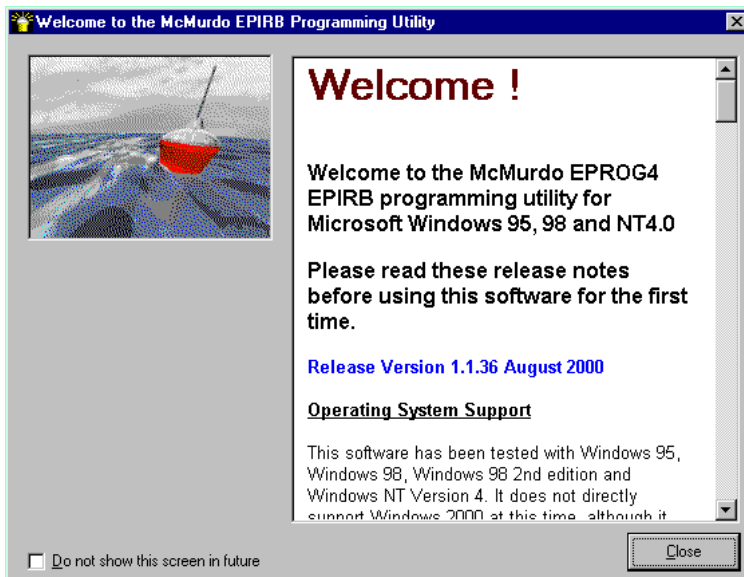
Input data

Starting EPROG4

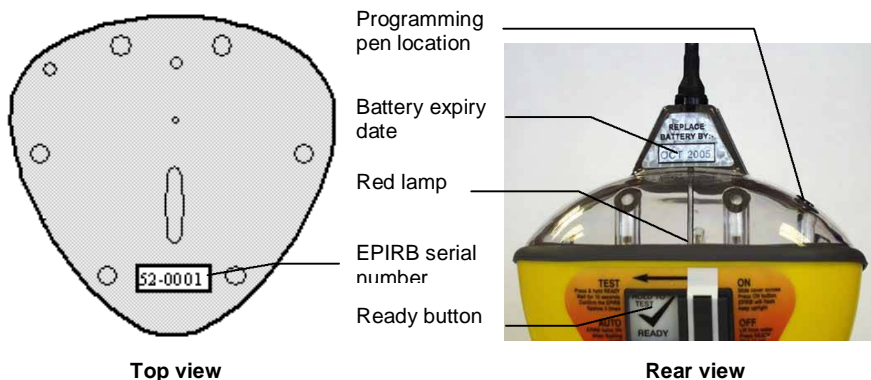
To start the EPROG4 program, click the Windows **Start** button and select the Programs submenu. Click the **EPROG4** icon; the EPROG4 program will then load. The first time the program is run (under NT), it asks for the Product ID. This is the number printed on the CD label and on the front of the CD box; it must be entered exactly as it is printed.



The EPROG4 program first displays a sign-on screen showing the version number. A welcome screen then appears which contains the latest information regarding the program. After it has been read for the first time, this welcome screen can be prevented from appearing again by clicking on the box in the bottom left corner. (It can be re-enabled if desired from the **Options** menu, as described later.)



Clicking **Close** on the welcome screen displays the main data input form, shown below. The programming instructions refer to labels, buttons and lamps on the EPIRB as shown.



Completing the main data form

Eprog4 - McMurdo Epirb Programming Utility

EPIRB Details

Serial Number: -

Battery Expiry Date: Month: Year:

Brand:

Mounting:

Vessel Details

Name:

Flag: Add New MID

☒ 1...9 ☐ A...Z

☐ MMSI Number:

☐ Radio Call Sign:

☐ C/S Serial Number:

Epirb #:

Program Epirb

Print

Reset Data

Options

Help

User Manual

Exit

- Serial Number** Enter the EPIRB serial number. Type the serial number exactly as it is shown on the label on the EPIRB as seen through the EPIRB lens dome.
- Battery expiry** Set the correct battery expiry date as shown on the expiry date label. The label is fitted to the rear of the EPIRB dome, just below the antenna. Both the expiry month and year must be entered.
- Brand** In the Brand section, choose the correct brand from the drop-down list. The brand is shown on the front of the EPIRB.
- Mounting** Select the EPIRB enclosure that will be supplied; the options are Float Free, Wall Mounting Bracket and Non Float Free Enclosure.
- Name** Enter the name of the vessel on which the EPIRB will be fitted.
Note: the vessel name is limited to 20 characters, so abbreviations may be necessary in some cases.
- Flag** Select the vessel's Flag State (MID) from the drop-down list. Select 1..9 to display the list in MID number order; select A..Z to display it in country name order.
 If the required MID is missing from the list, select **Add new MID**. Refer to the Options section for further details on adding a new MID.

Vessel Details

Name: MARIA

Flag: 237, Greece

231, Faroe Islands
 232, United Kingdom & N.Ireland
 233, United Kingdom & N.Ireland
 234, United Kingdom & N.Ireland
 236, Gibraltar
 237, Greece
 238, Croatia
 239, Greece

Add New MID

☒ MMSI N
☐ Radio C
☐ C/S Serial Number

#: 1

Countries which use MMSI coding of EPIRBs are often allocated several MID numbers. If you are programming an EPIRB with a MMSI, only the MID which is supplied as part of the vessel's MMSI may be used. Never use an alternative MID.

You must now choose to input a MMSI, a Radio Call Sign or a C/S Serial number by clicking the appropriate button. Depending on the selected Flag State, some options may be 'greyed-out' as unavailable, because that particular Flag State does not allow that option. Certain countries prefer a C/S Serial number; in such a case, the program only allows that selection. Where there is a choice, MMSI is always the best selection; a radio Call Sign is the least desirable selection.

MMSI Enter the last 6 digits of the MMSI (eg 123000 if MMSI is 278/123000)

Radio Call Sign Enter the vessel's call sign (4 to 7 alphanumeric characters eg GKU23)

C/S Serial No. In some cases EPROG4 will calculate a C/S number based on the manufacturer's serial number which was entered.

If the C/S number is not calculated by the program, a correct number must be entered. This number must be that allocated by the registration authority of the appropriate Flag State. Local authorities usually allocate blocks of serial numbers to agents within their country, or in some cases to the EPIRB manufacturer.

To obtain a serial number:

Flag State	Standard EPIRB	GPS EPIRB
232 UK	Automatic from S/N	Ask Orolia Ltd for the next UK number
366 USA	Automatic from S/N	Ask Orolia Ltd for the next US number
316 Canada	Automatic from S/N	To be defined
273 Russia	Get next S/N from authority	Get next S/N from authority
503 Australia	Enter unit S/N	Ask Orolia Ltd for the next C/S number

WARNING

It is most important that the number is allocated by Orolia Ltd; it must not be selected at random. Incorrect numbers may seriously hamper rescue attempts.

EPIRB number Leave this at 1 if this is the first or only EPIRB on the vessel. If there are two or more EPIRBs on the vessel, then it is necessary to determine which EPIRB is being programmed and to set the EPIRB number accordingly. It is common for large vessels to have more than one EPIRB.

Program EPIRB

Once all fields of the programming form have been completed, the **Program EPIRB** button is enabled and the EPIRB can be programmed.

Program EPIRB

Click the **Program EPIRB** button to open the programming information form:

The screenshot shows a window titled "EPIRB Programming Information". Inside, there is a section titled "The EPIRB Will Be Programmed With The Following Information". Below this title, the following details are listed: Registration Country: 237, Greece; Programmed Protocol: Maritime MMSI Standard Location Protocol; EPIRB Type: McMurdo G4; Mounting: Auto (Float Free Housing); Programmed Call Sign: 439439; Vessel's EPIRB Number: 1; Programmed Identifier: 1DA4D691E0FFBFF; Programmed Message: FF FE 2F 8E D2 6B 48 F0 7F DF FF 8E A1 F7 83 E0 F6 6C. To the right of the information, there are two buttons: "Program EPIRB" and "Change Data".

This form shows the data which will be programmed into the EPIRB. If any information is incorrect, click **Change** to return to the data input form to correct it.

Click on the **Program EPIRB** button again to open the EPIRB programming form:

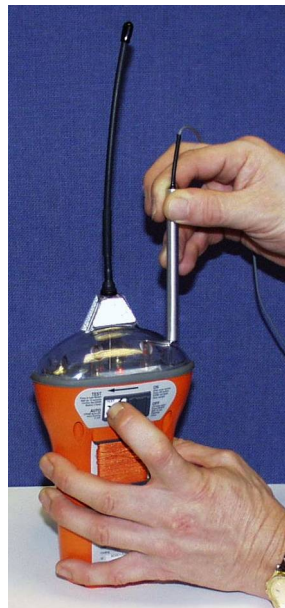
Program EPIRB

The screenshot shows a window titled "EPIRB Programming Instructions". On the left, there is an image of a red EPIRB mounted on a ship's side. Below the image is a "Data Transmit" button. To the right of the image, there are two sections of instructions. The first section is titled "To program the EPIRB -" and contains four numbered steps: 1. Place the programming pen **vertically** into the hole on the top cover of the EPIRB. 2. Press and hold the 'Ready' button on the EPIRB for at least 4 seconds. 3. Once programmed successfully, the red light on the EPIRB will flash on and off. 4. Release the 'Ready' button and click "PASS". The second section is titled "If the red lamp does not flash -" and contains two numbered steps: 1. If the red lamp on the EPIRB does not flash after 4 seconds the EPIRB has **not** been programmed. 2. Release the 'Ready' button and click on "FAIL" to cancel programming or click on "Help" for help on locating the problem. To the right of the instructions, there are two buttons: "PASS" and "FAIL".

Follow these instructions to program the EPIRB
(the instructions are repeated on the form):

- i Place the programming pen **vertically** into the programming dimple on the top cover of the EPIRB.
- i Press and hold down the 'Ready' button on the EPIRB
- i Once programmed successfully, the red light on the EPIRB will flash on and off.
- i Release the 'Ready' button and click on **PASS** on the computer screen.
- i If the red lamp does not flash, click on **FAIL**.

Once programming is complete click on the **Done** button to return to the main form.



If the EPIRB will not program

If the red lamp on the EPIRB lights but goes off again after approximately 4 seconds without flashing, or if the strobe flashes, the EPIRB has not been programmed.

Possible reasons why an EPIRB will not program:

The programming pen is not located correctly on the EPIRB	Ensure the programming pen is located vertically above the programming window. The programming window is the small 'dimple' on top of the EPIRB dome, as shown earlier. The programming pen must be held vertically above the EPIRB and in direct contact with the programming window to ensure maximum light transmission from the pen through the cover
The programming pen is not vertical	The programming pen must be held vertically above the EPIRB in direct contact with the programming window to ensure maximum light transmission from the pen through the cover
The programming pen is not connected to the computer	Ensure the programming pen is plugged in correctly and that the correct serial port is selected in the EPROG4 program
The wrong serial port is selected in the EPROG4 program	Ensure the correct serial port is selected in the EPROG4 program
The EPIRB does not work	Try programming a different EPIRB
The serial port does not work	Try a different serial port in the PC
The PC serial port is incompatible with the EPROG4 program	Some laptop and desktop PCs cannot supply sufficient power through the serial port to power the programming pen. In this case, try using a different desktop PC instead
The programming pen does not work	Contact Orolia Ltd for a replacement

Print forms and labels

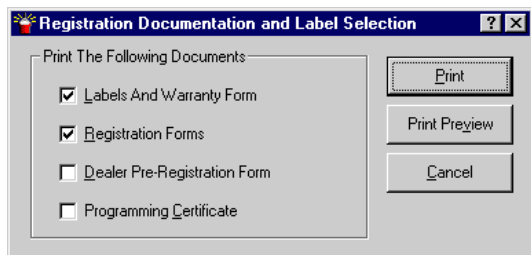
After the EPIRB has been programmed the labels, warranty form and registration documents must be printed.

Click on the **Print** button to open the print options form; select the required printed forms by clicking on the relevant options.



EPROG4 always pre-selects the **Labels and Warranty Form** and **Registration Forms** options, as these are always required when an EPIRB is programmed.

The **Dealer Pre-Registration Form** and **Programming Certificate** may also be selected if required. A description of each form is given later in this manual.



Click on the **Print** button again to print the EPIRB labels, Owners Warranty Form and Owners Registration Documents on the printer.



EPROG4 displays the current print progress while the documents are being printed.

The top half of this form is the EPIRB warranty form, which **must** be completed by the owner of the EPIRB and returned to the address shown on the form.

The lower half of the form contains the EPIRB label. It also contains the EPIRB enclosure label if the automatic float free option was selected on the main data input form. Since the labels are always required when an EPIRB is programmed, this form should always be printed. The warranty form should be cut where indicated and placed in the EPIRB packaging as soon as the EPIRB has been programmed, and the label(s) must be fixed to the EPIRB as indicated in the relevant section of this manual.

OWNER TO COMPLETE		WARRANTY FORM	
<small>(Unregistered warranty claims will not be processed)</small>			
Owner to complete this form and mail or fax it to the address shown ...			
EPIRB Unique ID <u>19A53CE7A0FFBFF</u> (15 digits) Flag <u>205 BELGIUM</u> Brand <u>McMurdo</u> Coding <u>649021</u> Model <u>G4</u> Category <u>1 - AUTO</u> Serial No. <u>37 - 4021</u> Protocol <u>MMSI / STD. LOCATION</u>		McMurdo Ltd. Silver Point Airport Service Road Portsmouth ENGLAND PO3 5PB ☎ +44 (0)23 9262 3900 Fax +44 (0)23 9262 3982	
OWNER / OPERATOR Name _____ Address _____ _____ _____ Country _____ ZIP Code _____ Work Tel _____ Fax _____ Home Tel _____ Mobile _____		DEALERS STAMP / ADDRESS <div style="border: 1px solid black; height: 80px; width: 100%;"></div> Dealer's Tel _____ Date of purchase (dd/mm/yy) _____	
VESSEL Name <u>MOLDAVIA</u> Type _____ Length _____ Radios <u>VHF MF HF DSC</u> Callsign _____ Inmarsat <u>A B C M</u> (circle) Tel No _____ Homeport (Marina/City) _____ Ship's EPIRB Number <u>1</u>		DETAILS (tick all that apply) <input type="checkbox"/> Change of Owner <input type="checkbox"/> Change of Address <input type="checkbox"/> Change of Vessel <input type="checkbox"/> Refurbished Unit	

IS-244



MOLDAVIA
EPIRB 1
19A53CE7A0FFBFF
FLAG 205 BELGIUM
MMSI 649021
CATEGORY 1 - AUTO
Class 2 -20/+55 C (-4/+131 F)
37-4021

Do NOT use cleaning agents	EXPIRY	Do NOT paint
Vessel MOLDAVIA	Replace HRU	Compass Safe distance 2m (6')
Flag 205 BELGIUM	<div style="border: 1px solid black; width: 50px; height: 20px;"></div>	Class 2 rated
Coding 649021	Replace Battery	-20 to +55 C
S/N 37 - 4021		-4 to +131 F
ID 19A53CE7A0FFBFF	<div style="border: 1px solid black; padding: 2px;">MAR 2006</div>	Lithium Battery
		FCC ID: KLS-82-501

REAR LABEL

- Cut around the box outline.
- Cover with the supplied protective film.
- Fit to rear of EPIRB where indicated.

ENCLOSURE LABEL

- Cut around the outside of the box.
- Cover with the supplied protective film.
- Fit to side of Epirb enclosure.
- DO NOT COMPLETE HRU BOX UNLESS REPROGRAMMING A PREVIOUSLY INSTALLED UNIT.

Fit EPIRB Rear Label.

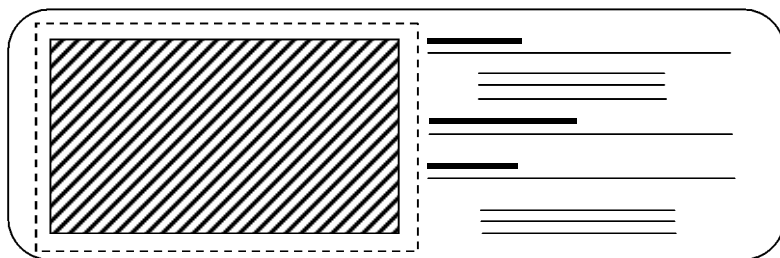
Cut this label from the warranty form, cutting so that the black border remains visible.




EPIRB rear label cut from warranty form

Fitting to current model EPIRBs

If necessary, remove the old label from the rear of the EPIRB – do NOT remove the manufacturer's coloured label. To ensure good adhesion it will be necessary to remove any grease from the area of the rear label where the sealing label will be fitted, using isopropyl alcohol (IPA).



Place the new label in the space shown (shown shaded ) and line it up with the edges of the outline.

Fit the self-adhesive sealing label (shown as a dashed line) over the entire label and seal the edges.

Fitting to earlier models

Earlier models have the identity label fitted underneath the main manufacturer's label. This label need not be removed.

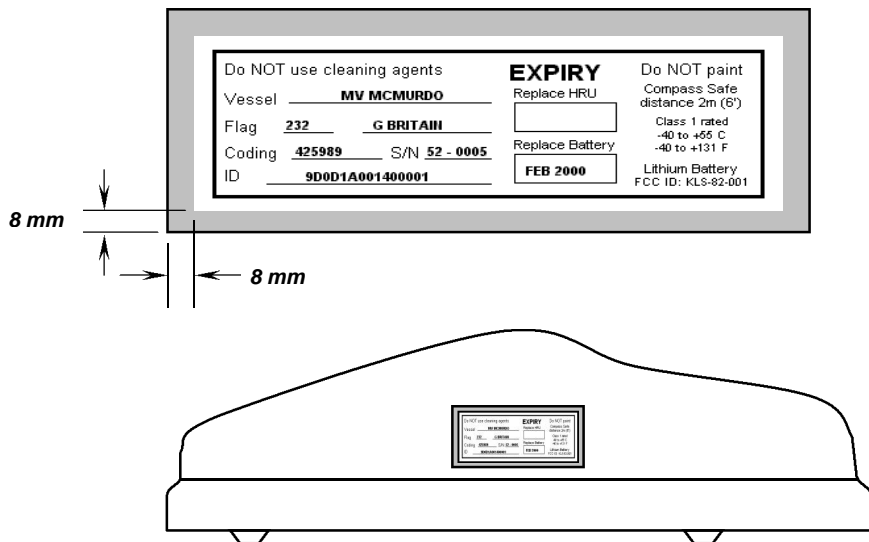
Remove the sealing label and clean the area with IPA. Place the new label on top of the manufacturer's coloured label so as to obscure the previous label or label window area, then fit the clear sealing label over the new label and seal the edges.

Fit Enclosure Label

This label must be fitted when the EPIRB is supplied with an enclosure. If necessary, remove the old label from the enclosure. To ensure good adhesion it will be necessary to remove any grease from the area of the rear label where the sealing label will be fitted, using isopropyl alcohol (IPA).

Cut the label from the warranty form, cutting carefully around the outside of the black border, so that the black border remains visible on the label.

Locate the large self-adhesive sealing label. Peel off the protective backing and stick the paper label in the centre, leaving an 8mm border around each side. Fit the label to the left side of the enclosure, just above the rim, as shown in the diagram.



The HRU expiry box on the enclosure label is normally left blank at this stage, but see the instructions on the following page.

Mark HRU expiry date



The HRU (Hydrostatic Release Unit) fitted to the float free enclosure must be replaced every two years. It must therefore be marked when it is installed, with the replacement date which will be 2 years from the installation date.

The replacement date (month & year) is marked on the HRU by carefully cutting and peeling off the appropriate areas of the label, as shown.

Mark enclosure label

This date must also be marked on the label attached to the exterior of the float free housing. Use the alphanumeric sheet supplied with the EPIRB. Apply the appropriate characters (the format is JAN 2000) to the outside of the label in the 'Replace HRU' box, then cover with a small piece of clear film.

This method ensures that the date can be changed easily when the HRU is replaced in 2 years time.

Pack registration forms

The owners registration form is used to register the EPIRB with the registration authorities. The EPIRB owner **must** register the EPIRB, as the information provided in the form enables the rescue services to identify the vessel in distress. This form should always be printed as soon as the EPIRB has been programmed. All three copies must be handed to the EPIRB owner. (Two copies are spares for use if the EPIRB is transferred or sold).

OWNER TO COMPLETE		406MHz EPIRB REGISTRATION
Owner to complete this form and mail or fax it to the registration address shown below <i>You MUST register this EPIRB on a database run by the country shown in the "Flag" heading below. The appropriate registration address is printed below. If no address is shown then contact your dealer.</i>		
PRIVACY Information you give will be used only to help search & rescue teams locate your vessel in the event of EPIRB activation. In the USA this data is solicited under CFR47 chapter1 part 2 & 80. Failure to register could result in monetary forfeit (USA only).		
<div style="border: 1px dashed black; height: 40px; width: 100%;"></div> <div style="text-align: right; font-size: small;">Barcode</div>		REGISTRATION ADDRESS Registration(EPIRBs) Radio Maritime Services Perronstraat 6 B-8400 Oostende Belgium ☎ (0032.59)551719 Fax (0032.59)701339
EPIRB Unique ID <u>19A53CE7A0FFBFF</u> (15 digits) Flag <u>205 BELGIUM</u> Brand <u>McMurdo</u> Coding <u>649021</u> Model <u>G4</u> Category <u>1 - AUTO</u> Serial No. <u>37 - 4021</u> Protocol <u>MMSI / STD. LOCATION</u>		APPLICATION TYPE (tick) <input checked="" type="checkbox"/> <input type="checkbox"/> New Registration <input type="checkbox"/> Change Of Information <input type="checkbox"/> Change Of Epirb Ownership <input type="checkbox"/> Replacement Epirb <div style="text-align: right;"><input type="checkbox"/> Sold <input type="checkbox"/> Scrapped <input type="checkbox"/> Returned To Dealer</div>
OWNER / OPERATOR Name _____ Address _____ _____ Country _____ ZIP Code _____ Work Tel _____ Fax _____ Home Tel _____ Cellular _____		EMERGENCY CONTACTS <u>24 Hour Contact #1</u> Name _____ Tel _____ <u>24 Hour Contact #2</u>
VESSEL Name _____ Registration No _____ (if applicable) Home Port (Marina/City) _____ Vessel Type (tick) <input checked="" type="checkbox"/> Power (tick) <input checked="" type="checkbox"/> <input type="checkbox"/> Tanker <input type="checkbox"/> Inboard <input type="checkbox"/> Bulk Carrier <input type="checkbox"/> Outboard		

Printing other forms and labels

Although the EPROG4 program automatically selects the **Labels and Warranty Form** and **Registration Forms** options from the print options form, there are a further two forms that may also be printed if required

Dealers pre-registration form

This form can be printed if required by selecting the relevant option on the print selection form. This form should be completed by the dealer and forwarded to the relevant EPIRB registration authority.

NOTE – This form is currently only required in Australia.

DEALER TO COMPLETE		406MHz EPIRB REGISTRATION	
Dealer to complete this form and mail or fax it to the registration address shown below			
<div style="border: 1px dashed black; height: 40px; width: 100%;"></div>		REGISTRATION ADDRESS Registration(EPIRBs) Radio Maritime Services Perronstraat 6 B-8400 Oostende Belgium ☎ (0032.59)551719 Fax(0032.59)701339	
Barcode			
EPIRB Unique ID <u>19A53CE7A0FFBFF</u> (15 digits)			
Flag <u>205 BELGIUM</u>	Brand <u>McMurdo</u>		
Coding <u>649021</u>	Model <u>G4</u>		
Category <u>1 - AUTO</u>	Serial No <u>37 - 4021</u>		
Protocol <u>MMSI / STD. LOCATION</u>			
OWNER / OPERATOR		DEALERS STAMP / ADDRESS	
Name _____		<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	
Address _____			

Country _____	ZIP Code _____		
Work Tel _____	Fax _____	Dealers Tel _____	
Home Tel _____	Cellular _____	Date Of Purchase (dd/mm/yy) _____	

82-246L

EPIRB programming certificate

This form provides a permanent record of the EPIRB programming. The form must be certified by the dealer. The form is a requirement in Russia where it must be provided to the Captain of the vessel to hold. In other countries, the certificate is not currently a requirement, however it can be used to provide the dealer with a permanent record of EPIRB programming.

PROGRAMMING CERTIFICATE

406MHz EPIRB

EPIRB DETAILS

Vessel : **MOLDAVIA**

Brand : **McMurdo**

Model : **G4**

Category : **1 - AUTO**

Serial No : **37 - 4021**

Battery Replacement Date : **Mar, 2006**

PROGRAMMING

As : **MMSI**

Flag : **205 BELGIUM**

Coding : **649021**

Protocol : **MMSI / STD. LOCATION**

Unique ID : **19A53CE7A0FFBFF**

Programmed Message : **FFFE2F8CD29E73D07F
DFFE5BF5EF783E0F66C**

DEALER / SUPPLIER

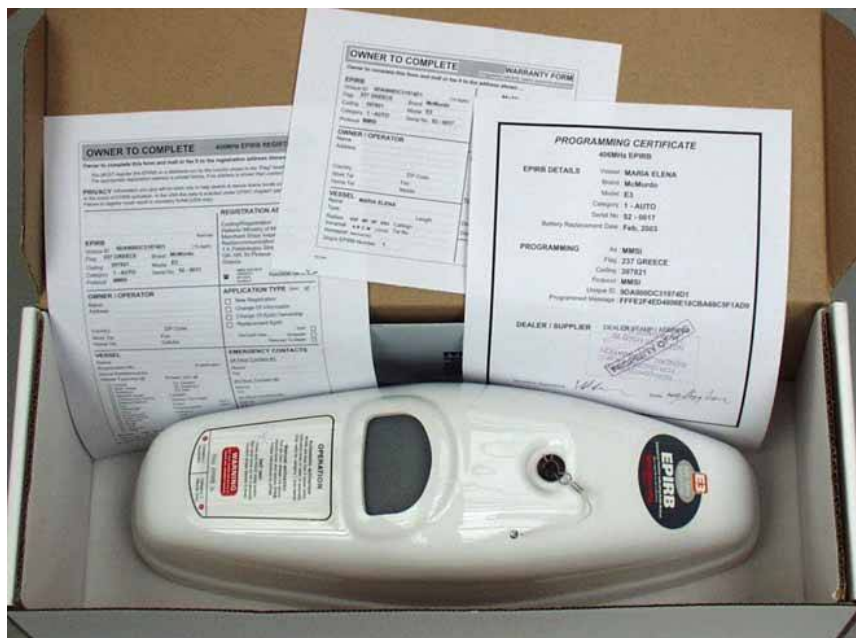
DEALER STAMP / ADDRESS

Dealer's Signature Date

IMPORTANT NOTE

The dealer must ensure that all relevant printed forms are supplied to the EPIRB owner, correctly stamped with the dealer's stamp.

Where the registration authority contact address is not printed on a form, the dealer must also supply the correct address.



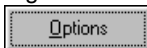
EPIRB with completed forms

Options

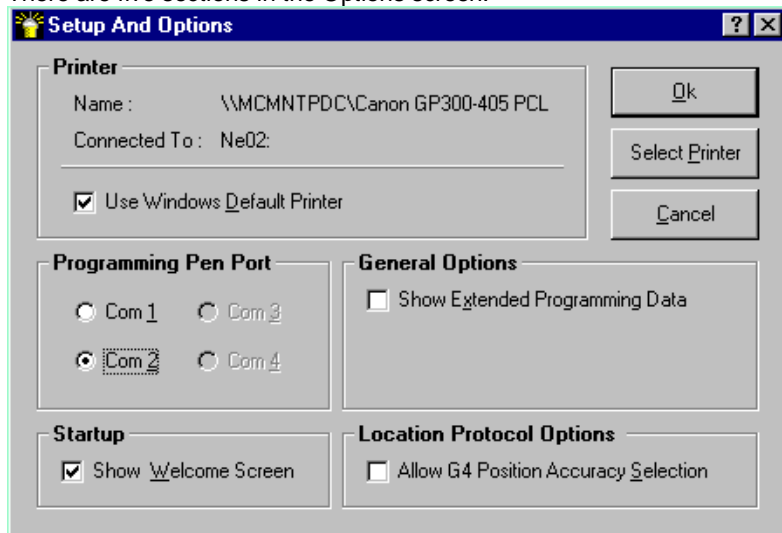
It is possible to change several default settings of EPROG4, as described below.

EPROG4 defaults to serial port COM2 for the programming pen and the default Windows system printer for printing labels and registration forms. These settings, however, may be changed from the setup and options page to suit the PC hardware in use.

To access the options page, click on the **Options** button on the program's main form.



There are five sections in the Options screen:



Startup option

The **Startup** option allows the welcome screen to be turned on and off.

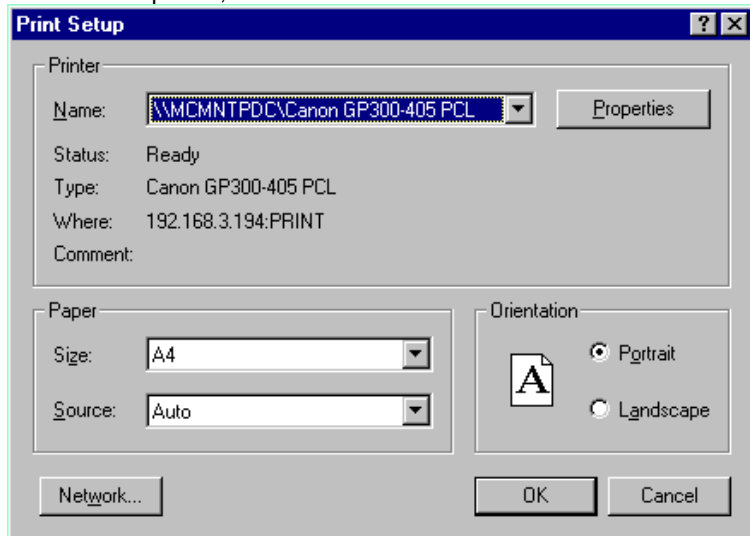
Location protocol option

The **Location Protocol** option produces another selection on the main data input form when the selected EPIRB has GPS capability. This allows agents to select specific location protocols if required by the registration authority.

It is recommended that this option is disabled unless there are compelling reasons for its use. Using non-standard protocols leads to degraded position accuracy.

Changing the printer

To select the printer, click the **Select Printer** button.



Select the required printer from the drop down printer list.

Select the paper size and source from the drop down boxes.

Select the paper orientation by clicking on the relevant option button.

Other properties for the printer can be changed by clicking on the **Properties** button to open the properties dialog.

In a network or corporate environment, the user may not have permission to alter the PC printer settings. If this is the case, click the **Use Windows Default Printer** option in the setup and options form.

The new printer selection will be stored so that it will be used as the default printer next time the EPROG4 program is started.

IMPORTANT

The EPROG4 program scales any printed output to the paper size set by the printer driver settings. This can cause the forms and the EPIRB labels to be wrongly dimensioned when printed, especially if a very small or very large paper size is selected.

The form layouts are optimised in the EPROG4 program to be printed at 100% full size on A4 paper. Accordingly, A4 (or Letter) size paper should be used if possible, otherwise the printed labels will not fit the EPIRB correctly. This may cause the labels to be unreadable and in extreme cases may possibly invalidate the EPIRB registration.

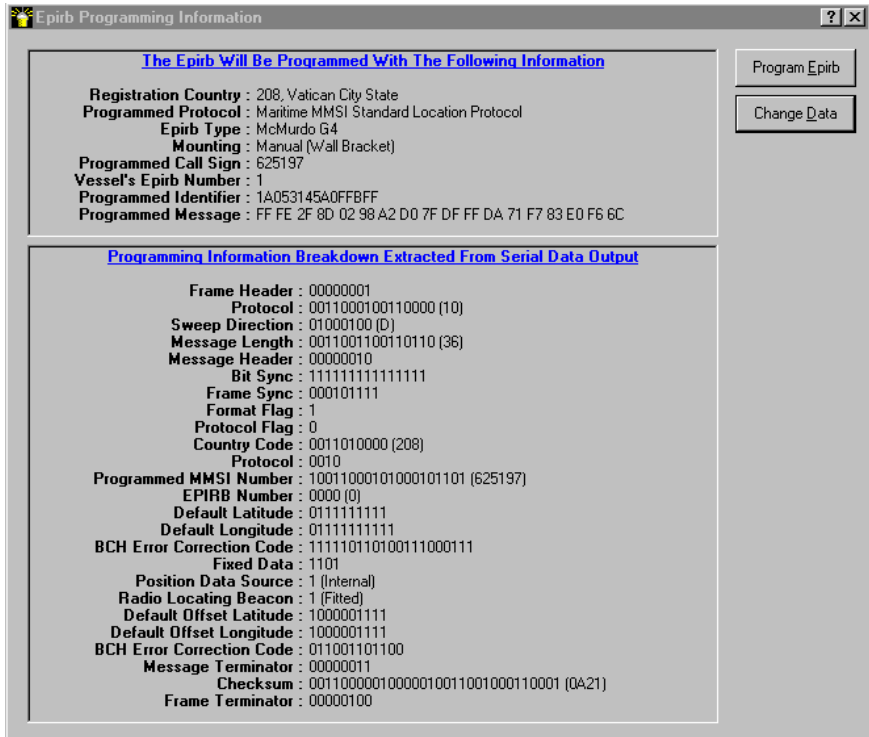
Changing the default programming pen port

The EPROG4 program can use any available serial port from COM1 to COM4.

NOTE: Certain combinations of serial port selections may cause the system mouse pointer to stop functioning. This problem is caused by interaction between the serial port hardware and the Windows operating system.

If this is a problem, select an alternative serial port for the EPROG4 program.

The **Show Extended Programming Data** option provides a full display of all programming information for diagnostic purposes.



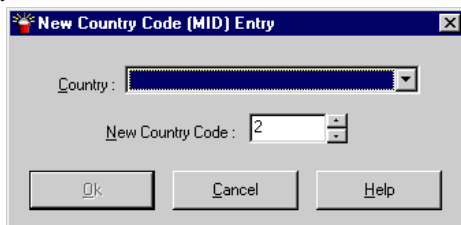
Adding new MID numbers

EPROG4 recognises all published registration Flag State MID numbers currently in use. As countries are assigned new MID numbers, EPROG4 will require updating.

EPROG4 allows the operator to add new MID numbers as they are required.

To add a new MID number:

Click on the **Add New MID Number** button on the main form. The EPROG4 program displays the New MID form.



Select the Flag State from the drop down list.

Enter the new MID code for the Flag State in the box.

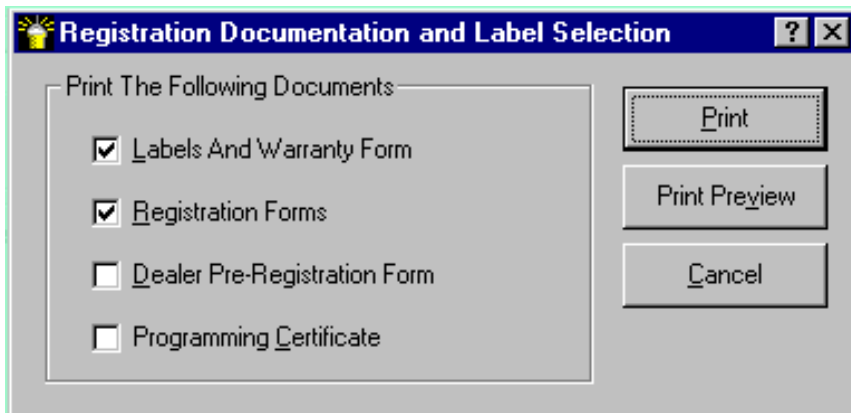
Click on the **OK** button to save the new MID number. The MID number is saved for use when the EPROG4 program is started.

New MID numbers, once added, are stored for use each time EPROG4 is run. If an updated MID list obtained from Orolia Ltd contains an identical MID number to one added by the operator, the entry from the updated Orolia Ltd MID list will be used.

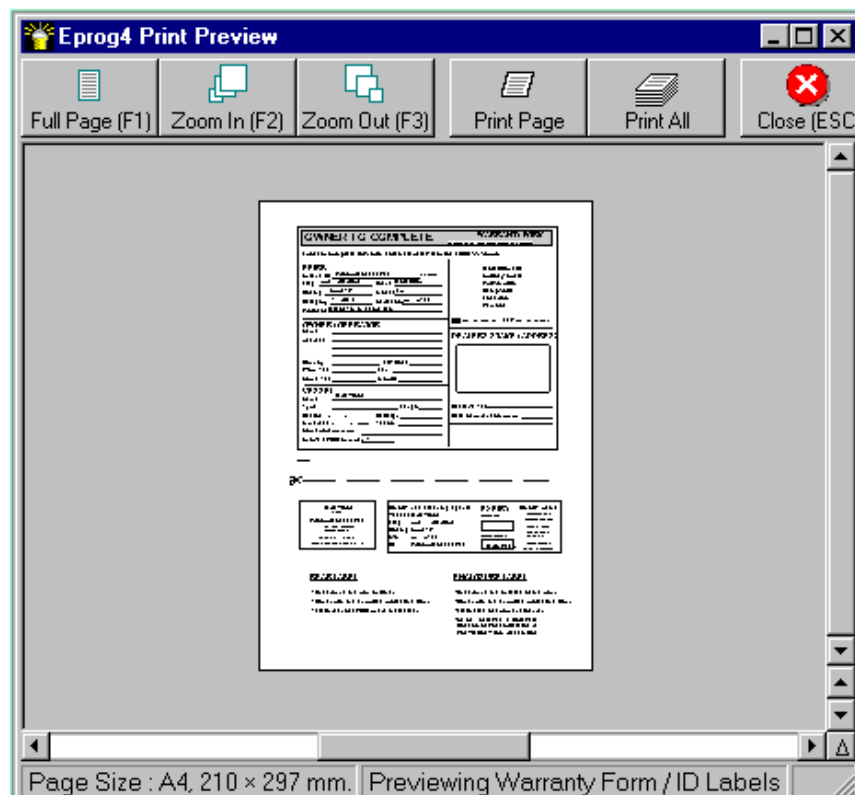
Print preview

EPROG4 is intended to print labels and warranty and registration forms directly, but it is also possible to preview the forms before printing.

Once all relevant data has been entered into the main data input form, click on the **Print Preview** button on the print options form to display the print preview window. While the preview window is displayed, the main data input form is hidden from view.



The control buttons at the top of the window control the viewing and printing.



Full Page (F1)

This view displays the entire page.

Zoom In (F2)

Increase the magnification of the page.

Zoom out (F3)

Decrease magnification.

Print Page

Print the page being displayed.

Print All

Print all pages previously selected.

Close (Esc)

Return to the main data input page.

Support

Support is normally only available for registered copies of EPROG4.

If a problem arises with the operation of EPROG4 that cannot be resolved using the manual or on-line help, product support is available directly from the manufacturers.

The preferred method of contact is by Email, giving a description of the problem and a brief summary of the PC hardware / software being used, to:

software.mcmurdo@orolia.com

Alternatively, telephone your usual sales contact or contact the company in writing:

Software Support
Engineering Department
Orolia Ltd
Silver Point
Airport Service Road
Portsmouth
PO3 5PB
ENGLAND

Telephone	+44 (0)23 9262 3900
Facsimile	+44 (0)23 9262 3997

REQUEST TO DEALERS

Orolia Ltd employs a process of continual product improvement. To help us provide the best possible product, please send us your comments and suggestions regarding the operation of this software.

We welcome your comments - any incorrect details, such as registration authority addresses, contact details etc. can be reported to the software support department at the e-mail or postal address given above.

Orolia Ltd

Silver Point
Airport Service Road
Portsmouth
Hampshire
United Kingdom
PO3 5PB

Email: service.mcmurdo@orolia.com

Website: www.mcmurdomarine.com

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