



**A3-06-2825 Handheld Test Set
8701/8708**



**ELT Test Set Operations Manual
Y1-03-0273 Rev. D**

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1. Introduction

The Artex ELT Test Set (ETS) beacon reader module, installed in an Aceeca Meazura™ MEZ1500 unit using Palm OS™, is designed to decode and display the encoded 406 MHz message. The reader can be connected directly to the ELT or monitored “over the air” using the supplied whip antenna (as allowed by local or national regulations). The reader will decode any Artex 406 MHz aviation protocol for ELTs. All instructions contained herein refer to Artex ELTs only. Familiarity with Palm devices and/or the Palm OS™ software is highly recommended. “Meazura” will be used throughout this document to describe the base Palm unit.

NOTE: The Artex ETS does not decode PLBs or EPIRBs.

NOTE: When connecting directly to an ELT, to prevent damage to the test unit, be sure to use the attenuator supplied as optional equipment, reference section 8.

1.1 Application

The ETS is a replacement for the Artex Sarsat Beacon Test Set P/N 453-0131 and P/N 453-1000 which are no longer available. **For all references to these Test Sets (or Sarsat Beacon Test Set) in any existing and/or previous Artex documentation, the Artex ETS P/N A3-06-2825 may be used as a direct substitute.** Follow the general directions for testing the 406 MHz signal as directed in the applicable Artex ELT Manual except follow the operational instructions for the ETS as outlined in this Manual. Screen views depicted for the previous test are significantly different from the 453-0131; refer to the views shown in this Manual and on the test set when using Artex documentation that refers to the 453-0131.

Note: This Manual does not describe the other functions of the Meazura™ / Palm™ platform or other Palm™ based applications that may be used. Contact Aceeca at www.aceeca.com for details and user guides. This Manual is applicable only to the Artex ELT Test Set (ETS), P/N A3-06-2825 Revision A or higher.

1.2 Differences

The primary differences between the Sartech test set (ARG 5410 or Artex P/N 453-0131) and the ETS are as follows:

- Ease of use
- Rapid signal acquisition and processing
- Display of all ELT 406 MHz message information on one screen
- Position data (when present) displayed in degree's, minutes, seconds
- Use of in-line attenuation not required
- Rechargeable long life battery
- Does not require periodic calibration

NOTE: The Artex ETS does **not** interface with the previous Artex Programming Software (510-0406) or Level Shifter (500-0232).

1.3 Features

The A3-06-2825 Handheld Test Set (Figure 1) has the following features and capabilities:

- All 406 MHz aircraft protocols decoded
- Reception of 406.025 MHz, 406.028 MHz, 406.037 MHz or 406.040 MHz frequencies
- Waterproof to IP67 standards
- Ruggedized case
- Internal database of received messages and programming
- Optional printing of current or stored messages via IR or Serial links
- Desktop application for database storage and review
- Long life rechargeable battery
- Built-in RF attenuator



Figure 1: A3-06-2825 Handheld Test Set with Antenna

2. Hardware Operation

Prior to use, install battery pack into test set. To close, place the battery pack with the top end in first. Now push down on the bottom end of the battery pack ensuring that it is firmly in place. Now push the clip firmly towards the bottom of the test set until it clicks into place. Charge the ETS battery using the supplied USB cable connection and wall charger; connect as shown below (Figure 2). Charge for 2 to 3 hours. Upon power-up, follow on screen directions for initialization and setting the time. The initialization routine is very important to ensure proper function of the stylus on the test set screen.



Figure 2: Charging Connection

3. Meazura Operation

The heart of the ETS is the Meazura MEZ1500 manufactured by Aceeca Ltd of Christchurch, New Zealand. The Meazura unit uses the Palm OS™ operation system. Artex has customized the operation of the Meazura by utilizing the MZIO™ interface inside of the Meazura unit.

NOTE: As delivered by Artex, the MZIO™ interface is not accessible by the user without voiding the Artex warranty on the ETS. The combination of the “off the shelf” Meazura MEZ1500 with a custom module that contains the Artex programming hardware interface results in the Artex ETS.

NOTE: Aceeca also refers to the MEZ1500 as an “RDA” for “Rugged Digital Assistant” this terminology is encountered on the Aceeca web site and in their literature.

3.1 Controls

The Meazura is controlled with the buttons shown below (Figure 3):

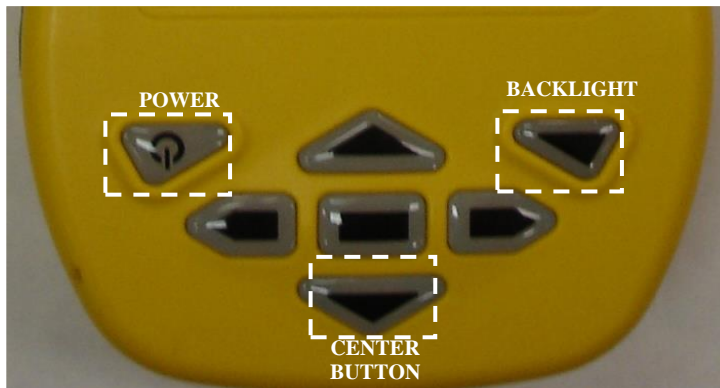


Figure 3: Controls

The power button is used to turn the unit off and on and when used with the backlight button is used for reset functions described later in this manual.

Operation of the Palm OS™ functions of the Meazura unit are described in great detail in the Aceeca "Meazura MEZ1500 User Guide" available free for download at www.aceeca.com.

3.2 Palm™ Desktop Software

Prior to use, the Palm™ Desktop Software as supplied via download from Aceeca at www.aceeca.com which must be installed on your Windows XP SP3 or later, Windows 7 PC that will be used to interface with the ETS. Follow the on-screen instructions for installation.

1. Open desktop browser and go to www.aceeca.com
2. Select options in the following order:
 - **Support**
 - **Downloads**
 - **Desktop Software**
 - **Palm/Garnet Desktop for Windows PC**
 - **Download Now**
3. Unzip File Folder **SFW_WINX32_PALM-DESKTOP_V4.1_20110322.ZIP**.
4. Open file folder **Palm Desktop Installation**.




5. Double click **setup.exe** and follow prompts.
 - **Install Shield Wizard** will open. Select **Next**.
 - Read the **SOFTWARE LICENSE AGREEMENT**.
 - Select **I accept the terms in the license agreement**, then **Next**.
 - When asked **Complete** or **Custom**, select **Complete**.
 - Select **Existing User** or **Create New User**.
 - When asked about **Connections**, select **USB**.
 - Select **Install**, then **Finish**.
6. Open Palm Desktop.


NOTE: The Palm desktop software works most amiably if a single Meazura™ (Palm) device is associated with a single computer. It is possible to use more than one Meazura™ device with the same computer but attention must be given to the selection of appropriate user names when transferring data to and from different units.

The Palm software identifies the User Name when the Palm Desktop application is installed on a PC. Only one User Name can be used with the Artex applications.

3.3 Sarcalc Desktop

The Sarcalc Desktop application SarCalc Desktop V1.2 (or higher) may also be installed on a PC (available free for download at www.acrartex.com). Once installed, the entire Sarcalc or Artex database can be reviewed.

1. Open desktop browser and go to www.acrartex.com
2. Select options in the following order:
 - **SUPPORT**
 - **ARTEX SUPPORT**
 - Under **DOWNLOADS**, select **SARCALC DESKTOP Software**
3. Open File Folder **SARCALC DESKTOP Software**
4. Select **SarCalcInstall.exe**. **Setup Wizard** will open.
5. Perform steps below
 - **Next**
 - Read **License Agreement** and Select **I Agree**
 - Select **Destination Folder** and **Install**
 - **Finish**
6. Open program **SarCalc Desktop** 
7. Open **Palm Desktop** and perform **Hotsync** operation. (Refer to sections above).
8. Open **SarCalc Desktop**  and click on .

9. Open **Computer/OS (C:)/ProgramFiles(x86)/Palm/" Select Correct User"/Backup**
 - Example: Computer/OS (C:)/ProgramFiles(x86)/Palm/User/Backup
 - **NOTE:** You will not see the backup folder unless you use "**Sarcalc Desktop**"
 - Select **Sarcalc.pdb** and **Open**
10. Tests are found on left side and are listed by date then time.
11. Select test and then print icon. 

NOTE: The Meazura unit must be HotSync'd with the Palm Desktop software to load the database from the Meazura unit to the PC. Once sync'd, the database can be opened on the PC by starting the SarCalcDesk.exe application and opening the database from the file menu. The Palm HotSync will usually store the database file in C:\ProgramFiles\Palm\Artex\Backup\ (where Artex is the Meazura user name. Be sure to use the "Artex" user name whenever performing a "HotSync". All Artex provided software is loaded to the Meazura using this user name.) The database will be named SarcalcDB.PDB. If the Meazura was set-up on the PC with a different User Name than "Artex", check the folder for that User Name to locate the Backup file to find the Sarcalc and Artex database information.

3.4 Hot Sync

Once installed and configured, the Palm™ Desktop Software will allow installation of additional software applications as well as performing the hot sync function to transfer data to and from the ETS (Meazura unit). Artex provides a USB cable (452-0103) to connect to a PC.

1. Connect test set to PC using USB Cable. Windows may not recognize the device and will require a driver.
2. Open desktop browser and go to www.aceeca.com
3. Select options in the following order:
 - **Support**
 - **Downloads**
 - **Drivers**
 - **64 bit USB Windows Driver for Palm/Garnet OS or 32 bit USB Windows Driver for Pam/Garnet OS**
 - **Download Now**
4. Unzip File Folder **DVR_WINX64_USB_GN4_GN5_20110322.ZIP**
 - Follow instructions found in **64bit USB Driver Installation Guide 20110607**
5. Ensure Palm Desktop is open.

The hot sync function is accessed by tapping the Hot Sync icon on the main Meazura screen as shown in Figure 4. The hot sync operation is described in greater detail in the Aceeca "Hot Sync Guide" available free for download at www.aceeca.com.

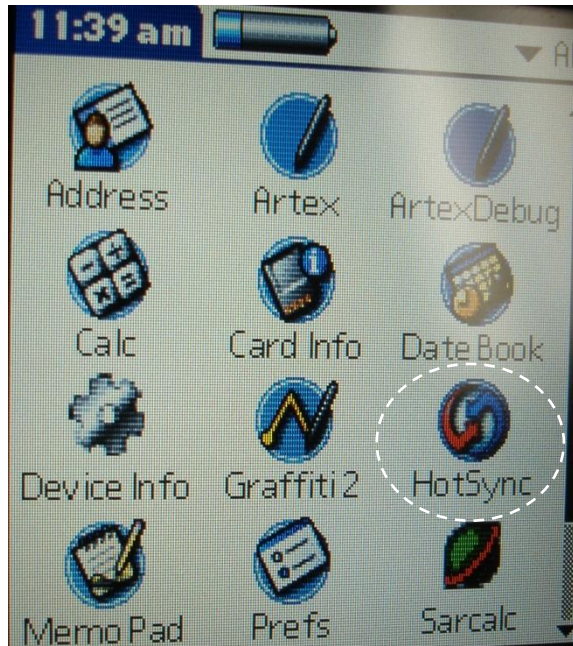


Figure 4: Hot Sync Icon

4. Maintaining your Battery Pack

4.1 Battery Usage

The Meazura™ MEZ1500 RDA comes with a custom rechargeable lithium ion battery pack that can only be purchased from Aceeca or Artex.

4.1.1 Battery Warnings

- Do not heat or throw the battery into a fire.
- Do not use or store the battery close to fire or inside a car in which the temperature may be over 60°C.
- Do not put the battery in your pocket or in a bag together with metal objects such as necklaces, hairpins, coins, or screws. Do not store the battery with such objects.
- Do not short circuit the (+) and (-) terminals with a metal object such as a needle, necklace or hairpin.
- Do not pierce the battery with a sharp object such as a nail.
- Do not hit with a hammer, step on, throw, drop or allow the battery to undergo other such strong shock.
- Do not disassemble or modify the battery.
- Do not solder the battery directly.
- Do not use a battery that is severely scarred or deformed.

4.1.2 Battery Storage

Unlike Nickel Cadmium (NiCad) batteries or Nickel-metal Hydride (NiMH) batteries, lithium-ion (Li-ion) batteries should be charged early and often. Never use battery maintenance software to maintain your battery as this can reduce the life of your battery. Li-ion batteries should be kept cool. They should not be subjected to freezing temperatures. Aging will occur much faster at high temperatures (such as a hot car) and will reduce the life of your battery.

Purchase a Li-Ion battery pack only when you need a replacement, ensuring you receive a fresh battery pack.

- Stop using the battery if it exhibits abnormal heat, odor, color, deformation or is in an abnormal condition.
- Keep away from fire immediately when leakage or foul odor is detected.
- If liquid leaks onto your skin or clothes, wash well with fresh water immediately.
- If liquid leaking from the battery gets into your eyes, do not rub your eyes. Wash them well with clean water and consult a doctor immediately.
- Before using the battery, be sure to read the user's manual and cautions on handling thoroughly.
- For information on installing and removing the battery from equipment, thoroughly read the user's manual for the specific equipment.
- Batteries have life cycles, so if the time that the battery is powering the equipment

becomes much shorter than usual, the battery life is at an end. Replace the battery with a new one.

- Remove a battery whose life cycle has expired from equipment immediately.
- When the battery is discarded, make it non-conducting by applying vinyl tape to the (+) and (-) terminals. The battery must either be discarded as specified by local regulations or put it in the recycling box of a store that is cooperating in the recycling of rechargeable batteries.
- When not using the battery for an extended period, remove it from the equipment and store it in a place with a low humidity and low temperature.

4.1.3 Battery Charging

Do not charge the battery for more than 2 to 3 hours, overcharging can actually drain the battery. The lithium-ion battery can provide between 300-500 charge/discharge cycles. The lithium-ion battery is certainly different from most other rechargeable batteries as charging from a partially charged battery keeps the battery in great condition whereas other batteries prefer to be fully discharged each time before recharging again. Fully discharging the lithium-ion battery should be avoided wherever possible. For most users, charging the battery at the end of each day would be the ideal choice. The lithium-ion battery pack typically lasts about 2-3 years, but potentially longer if cared for in the right way.

- When charging the battery, use dedicated chargers and follow the specified conditions.
- Do not use or charge the battery close to fire or inside a car in which the temperature may exceed 60°C.
- Stop charging the battery if charging is not completed within the specified time.
- Thoroughly read this manual before charging the battery.
- The battery can be charged within a 0°C to 45°C temperature range.
- Use the battery only in the specified equipment.
- Do not charge the battery in a place where static electricity is generated, or let the battery touch something that is statically charged.

4.1.4 Recycle and Disposal Methods

Lithium ion batteries, like all rechargeable batteries are recyclable and should be recycled.

CAUTION: If your battery is damaged, or if it no longer holds a charge, dispose of it promptly and properly. Do not dispose of it along with general waste. Call your local waste disposal agency or environmental agency for advice on disposing of the battery.

5. Using the ELT Reader

IMPORTANT NOTE:

PERFORM ALL ELT TESTING IN ACCORDANCE WITH LOCAL OR NATIONAL REGULATIONS. IF REQUIRED, TERMINATE ELT INTO A 50-OHM LOAD OR PERFORM TESTING IN AN RF SHIELDED ENVIRONMENT.

ELTS WITH 121.5/243 MHZ TRANSMITTERS MUST BE TESTED WITHIN 5 MINUTES AFTER THE HOUR (US/CANADA). LIVE TRANSMISSIONS OF THE 406 MHZ SIGNAL MUST BE LIMITED TO ELTS WHICH TRANSMIT A "SELF TEST" USING TEST FRAME SYNCHRONIZATION. EXTENDED TESTING OF THE 406 MHZ ELT SIGNAL MUST BE PERFORMED DIRECTLY CONNECTED TO THE READER WITH PROPER SIGNAL ATTENUATION AND/OR RF SHIELDING. SEE "OPTIONAL EQUIPMENT".

The supplied Sarcalc program version 3.01 or higher (sarcalc.prc) is pre-installed on the Meazura unit in ROM memory.

Select the Sarcalc program by tapping the "Sarcalc" icon shown in Figure 5.

NOTE: The exact location of your Sarcalc icon may vary depending on what other programs or applications are loaded on your Test Set. Select "Measure" from the initial screen. Connect the reader to the ELT directly with a coax cable (no attenuator required for test set) or connect the whip antenna.

NOTE: The ELT read function does not detect or verify the presence of 121.5 MHz; this is a 406 MHz reader ONLY.

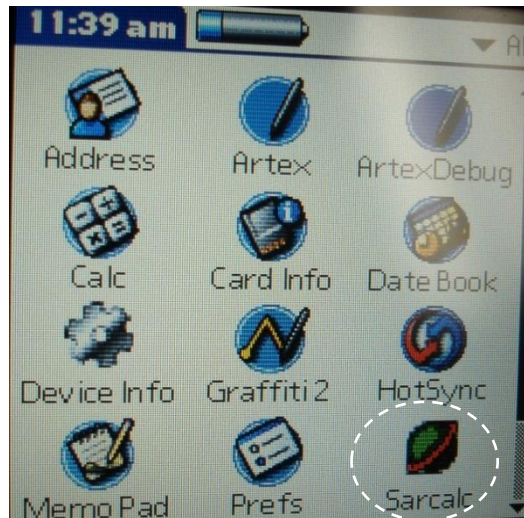


Figure 5: ETS Main Screen View

The reader is now ready to receive and decode the message. Select "measure" from "Avionic Tools" screen as in Figure 6. The screen will display "Waiting for Data" as shown in Figure 7 until a valid ELT transmission is received. Perform a "Self-Test" of the ELT by turning the ELT local or remote switch from "OFF/ARMED" to "ON" for no more than 3 sweeps of the 121.5/243 MHz signal and then switch back to "OFF/ARMED". If the received data is invalid, then "Message Error!" will be displayed. This may indicate excessive distance from the ELT antenna if testing externally. 0-30 feet distance from the ELT antenna is recommended, although distances up to 50 feet are possible (as allowed). The ELT internal 406 MHz oscillator may also need to warm-up. Repeat the ELT test if necessary.

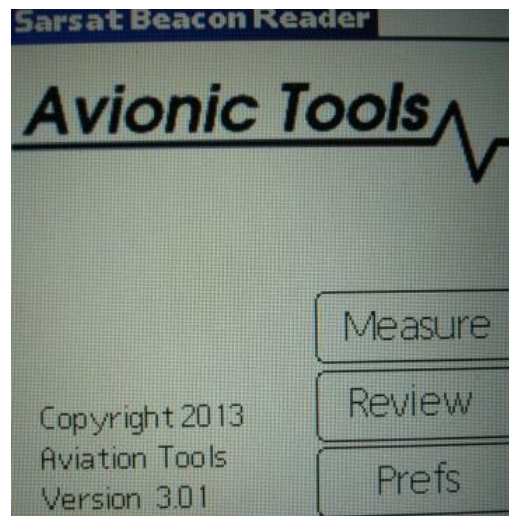


Figure 6: Software Screen View

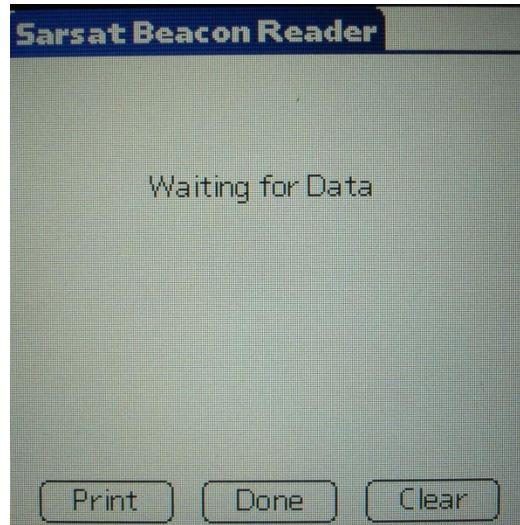


Figure 7: Waiting for Data Screen view

Once a valid message is received, all encoded data is displayed on the screen as shown in Figure 8. The first line contains the 15 digit Hex ELT ID. This ID is used to register the ELT with the national authorities (NOAA in USA). The second line indicates the message type: Test or Normal, and Short or Long. The third line displays the country of registry code and the country. The fourth line will contain the ELT identifying data. The ELT identifying data will consist of one of the following: serial number, aircraft 24 bit ICAO address, or aircraft registration number. ELT type will be displayed (ELT) and also any auxiliary locating device (121.5 MHz ELT). If the ELT includes a navigation function, the position will be displayed in latitude/longitude.

NOTE: The received 406 MHz frequency is not displayed. The message will be time stamped.

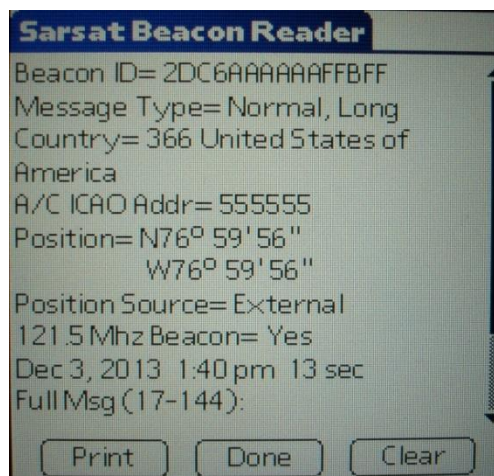


Figure 8: Example of Standard Location Data View

NOTE: A displayed message will remain on-screen until the "Clear" button is selected. Select "Done" to save message and proceed. A new message will not over-write the old message.

If the ELT is encoded with the 24 bit International Civil Aviation Organization (ICAO) address and country of registry is USA, then the ICAO address will also be decoded to an 'N' number registration as shown below.

The message will be automatically saved to a database for later review. Press "clear" or right arrow key to clear screen for next message.

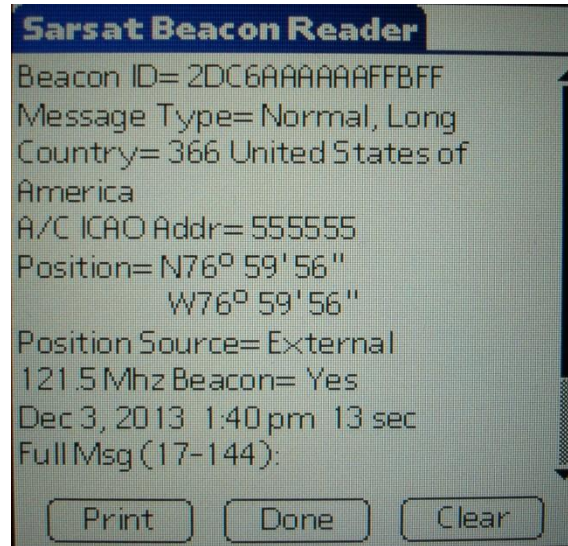


Figure 9: Example of 24-Bit Address Data View

5.1 Reader Database

All recorded messages are automatically saved to a database (up to 1000 records). Select "Review" from the initial Sarsat screen. The latest message will be displayed with the date and time the message was recorded. Navigate between older and newer saved messages by selecting "Prev" or "Next". Any displayed message can also be printed (if optional printer software is installed).

The number of records kept can be changed by selecting "Prefs" from the initial Sarsat screen (see "Preferences"). The database can be erased by deleting the database "SarsatDB" from the main Meazura screen as shown in Figure 10. Tap the upper left-hand corner of the main screen to show the "App" pull-down screen, select "Delete" and then select "SarsatDB" to delete. Individual records cannot be erased.



Figure 10: Deleting Database Screen Views

5.2 ELT Reader Preferences

If "Prefs" is selected from the initial Sarcalc screen (Figure 11), the following items may be selected:

- Readings to keep – 10, 20, 100, 1000
Maximum number of readings to store in the database
- ICAO Format – Octal, Hex, Decimal
Format of ICAO Address display
- Display Full Address – checked, unchecked
Check for display of full ELT message, bits 9 –144 (30 Hex digits) or leave unchecked to display only bits 26-85 (15 Hex digits)

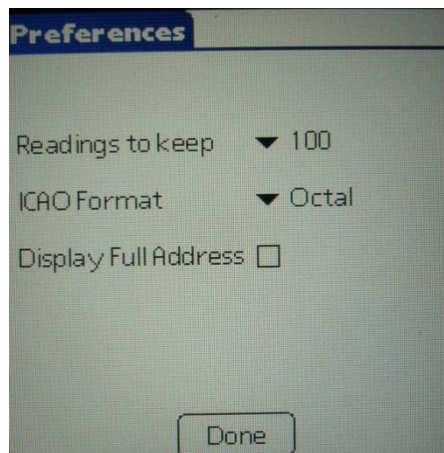


Figure 11: Preferences Screen View

5.3 Printing Messages

The message may be printed (via serial connection) by selecting "Print" from the Measure or Review screens. The report will print all the displayed data.

NOTE: Artex does not provide or support the optional printer software, contact the recommended source below.

The print function relies on the Stevens Creek Software application PalmPrint or SCSPrint. Either PalmPrint.prc or SCSPrint.prc must be installed on the base Meazura unit for printing to function. PalmPrint or SCSPrint are available from:

Stevens Creek Software, LLC

P.O. Box 2126

Cupertino, CA 95015

Fax: 1-603-698-4777

www.stevenscreek.com

Printing preferences are selected from the main Meazura screen by selecting PalmPrint or SCSPrint and then choosing serial connections, and choosing an appropriate printer type. Poorly formatted or illegible text may be caused by incorrect serial port speed or printer type selection. For more information contact the printer software vendor.

6. ELT Test Set Unit

The base unit is an Aceeca Meazura MEZ1500 manufactured by Aceeca Ltd of Christchurch, NZ. The Meazura unit is ruggedized and waterproof to IP67 standards, is based on the Palm OS version 5.4, and features a long life battery. The ELT Test Set module plugs into the internal Aceeca MZIO slot and is secured with 2 screws – **DO NOT REMOVE – DOING SO WILL VOID THE ARTEX WARRANTY.**

Additional operating information can be found in the Aceeca documents MEZ1500 Quick Reference User Guide and MEZ1500 HotSync Configuration Guide located on Aceeca's website at www.aceeca.com.

6.1 Meazura MEZ1500 Specifications:

Operating System:	Palm OS 5.4
Memory:	64MB SDRAM, 128MB Flash
Display:	240x320 color, backlit LED
Communications:	USB (cable provided) SD Card for memory storage (accessory) Serial (921.6Kbs)
Battery:	7.4V Li-Ion 1700mAh
Sealing:	IP67 – submersible to 1 meter (30 min)
Current Consumption:	60-120mA (depending on screen brightness) unit ON (excluding module) 120mA typical (maximum brightness). 5 mA Sleep mode

Contact Aceeca at www.aceeca.com for more information on the base Aceeca Meazura unit or for additional accessories.

6.2 ETS Module Specifications:

406 receiver range:	-60dBm to +36dBm (5W)
Power source:	Meazura internal battery
Decoding:	per COSPAS/SARSAT C/S T.001 Issue 3 Rev. 5
Current Consumption	10mA unit ON <100nA Sleep mode

6.3 Calibration

The ETS is factory calibrated and does not require periodic re-calibration.

7. System Component Part Numbers

The Artex ELT Test Set is being offered as a complete kit (8701) with the following parts:

1 ea.	A3-06-2825	ELT Test Set Main Assembly
1 ea.	110-418	Antenna, ¼ Wave Flexible Whip 418 MHz
1 ea.	452-0100	Holster, Padded ELT Test Set
1 ea.	452-0101	Stylus, ELT Test Set
1 ea.	452-0102	Battery, ELT Test Set
1 ea.	452-0103	USB Cable, ELT Test Set
1 ea.	452-0104	Charger, ELT Test Set
1 ea.	Y1-03-0273	Manual, ELT Test Set Operation

Any of the above part numbers may be ordered as a replacement or as a separate line item. Contact the ACR/Artex customer service department at 1-800-432-0227 or 954-981-3333 for details.

8. Optional Equipment

If national or local regulations require that the ELT be attenuated and/or directly connected to the ETS, the following parts may be used:

500-3000	Attenuator, 30 dB
611-9010	Cable, Coax 6 ft.TPS to BNC (For Dual Output ELT)
611-6013	Cable, Coax BNC to BNC (For Single Output ELT)

Commercial equivalents of any of these parts may also be used.

9. Troubleshooting Guide

SYMPTOM	LIKELY CAUSE	ACTION
Meazura is "locked" up, programs will not respond.	Various	Perform "soft reset" by holding down both the power and backlight keys simultaneously will perform a soft reset; the Meazura stops what it was doing and restarts. All applications and data stored in the handheld are retained.
Meazura will not respond to "soft reset"	Various	Perform "hard reset" by doing a soft reset but keeping the power key held down until the Palm Powered® logo appears. A confirmation message is displayed asking the user to confirm the hard reset, whereby pressing the up arrow key will proceed with the process. A hard reset does everything a soft reset does but also erases all programs, data, patches and user information.
Meazura will not power on	Dead battery	Charge battery for at least 2 hours
Meazura will not reset (either "soft" or "hard")	Defective Meazura unit	Return unit to Artex
Meazura will not power on with known good battery	Defective Meazura unit	Return unit to Artex

10. Technical Assistance

Please be sure to thoroughly read this manual. If assistance is required, contact ACR Electronics, Inc. in the United States at 954-981-3333.

11. Warranty Information

The ETS is covered by the Artex Limited Avionics Warranty for 24 months. See **"Artex Warranty Statement"** on the Artex web site at <http://www.acrartex.com> for more details.