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# THALES

THALES e-TRANSACTIONS

# ARTEMA

PORTABLE & MOBILE



INSTALLATION  
GUIDE

US

# TABLE OF CONTENTS

|  |    |
|--|----|
| <b>TECHNICAL SPECIFICATIONS</b> .....            | 2  |
| HAND HELD UNIT .....                             | 2  |
| BASE UNIT .....                                  | 2  |
| <b>ARTEMA PRESENTATION</b> .....                 | 3  |
| <b>INSTALLATION AND CONNECTIONS</b> .....        | 4  |
| BATTERY PACK .....                               | 5  |
| OPTIONAL BATTERY PACK .....                      | 5  |
| PAPER ROLL .....                                 | 6  |
| ELECTRICAL OUTLET .....                          | 7  |
| TELEPHONE NETWORKS .....                         | 7  |
| RADIO LINK SETUP .....                           | 8  |
| PERIPHERALS .....                                | 8  |
| CHARGING THE BATTERY .....                       | 8  |
| <b>TROUBLE SHOOTING &amp; SPARE SPARTS</b> ..... | 9  |
| <b>COMPLIANCE INFORMATION</b> .....              | 10 |
| GENERAL .....                                    | 11 |
| PORTABLE VERSION .....                           | 12 |
| MOBILE VERSION .....                             | 12 |

# TECHNICAL SPECIFICATIONS

## HAND HELD UNIT

|                         |  |
|-------------------------|--|
| SIZE                    | 8.57x3.2x2.3 inch (243 x 90 x 65 mm)   |
| WEIGHT                  | 23,9 OZ (680 g)  |
| PRINTER                 | Superfast thermal printer 15 l./sec, 384 dots/line   |
| DISPLAY                 | Liquid Crystal Graphical, Backlit, 40x132 dots   |
| KEY PAD                 | 17 wide, backlit keys, secured pin pad for credit terminals  |
| CARD READERS            | Bidirectional Magnetic stripe card reader<br>ISO2 and ISO3 or ISO2 and ISO1<br>ISO 7816 smart card readers : 1 optional smart card reader 8/16 contacts<br>2 or 4 optional SAM microcard readers |
| CENTRAL PROCESSING UNIT | 32 bits RISC processor, 256 KB RAM<br>2 MB Flash memory.   |
| POWER SUPPLY            | Removable Ni Cd battery pack<br>Charging time:<br>2 hours for 60% of capacity<br>8 hours for a full charge.  |
| RADIO                   | Mobile version : CDPD enabled modem<br>Portable version : 900 MHz spread spectrum terminal to base link  |

## RADIO BASE UNIT (PORTABLE VERSION)

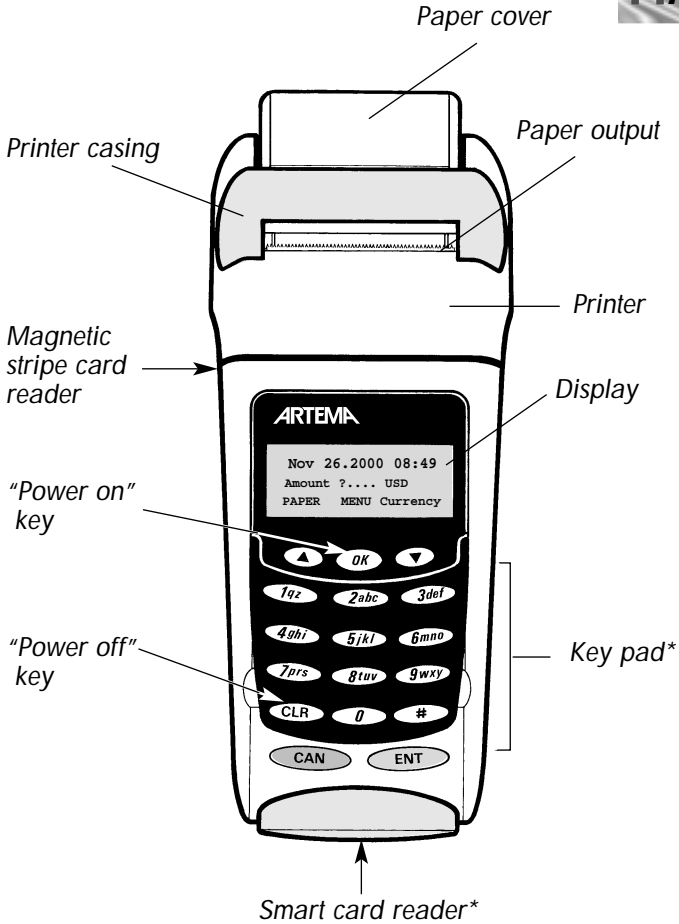
|                                      |  |
|--------------------------------------|--|
| SIZE                                 | 9.25 x 5.4 x 2.9 inch (235 x 138 x 74 mm)        |
| WEIGHT                               | 28.7 OZ (815 g)                                  |
| POWER SUPPLY                         | 115 V AC, 60Hz, 0,2 A, US power cord             |
| PHONE CONNECTION                     | 2 phone line interfaces, multimode V22 bis modem |
| PERIPHERAL CONNECTIONS               | 2 RS232 interfaces.                              |
| 2 <sup>ND</sup> BATTERY PACK CHARGER | YES  |
| RADIO                                | 900 MHz spread spectrum terminal to base link    |

## POWER SUPPLY BASE UNIT (MOBILE VERSION)

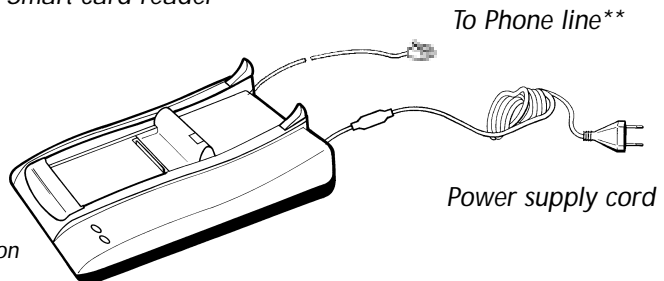
|                                      |   |
|--------------------------------------|---|
| SIZE                                 | 9.25 x 5.4 x 2.9 inch (235 x 138 x 74 mm) |
| WEIGHT                               | 23.9 OZ (680 g)                           |
| POWER SUPPLY                         | 115 V AC 60 Hz, 0,2 A, US power cord      |
| PHONE CONNECTION                     | none                                      |
| PERIPHERAL CONNECTIONS               | none                                      |
| 2 <sup>ND</sup> BATTERY PACK CHARGER | none                                      |
| RADIO                                | none                                      |

# ARTEMA PRESENTATION

## HAND HELD UNIT



## BASE UNIT



\* depending on configuration

\*\* ARTEMA Portable only

# INSTALLATION AND CONNECTIONS

## WARNING

ARTEMA is an electrical device. It must be used in normal conditions as described in this manual. DASSAULT A.T. cannot be held responsible for:

- ☞ Damages due to using or servicing ARTEMA other than in the conditions described in this guide.
- ☞ Damages or Failures due to external causes.

## LITHIUM BATTERIES

In addition to the battery pack of the handset, ARTEMA uses Lithium batteries in order to backup internal data. The Lithium batteries in normal usage conditions have a 6 year life expectancy. These batteries should only be replaced by an approved servicing center.

### CAUTION

**Danger of explosion if battery is incorrectly replaced**

**Replace only with the same or equivalent type recommended by the manufacturer.**

**Dispose of used batteries according to the manufacturer's instructions.**

### ATTENTION

**Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.**

**Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.**

**Mettre au rebut les batteries usagées conformément aux instructions du fabricant.**

## ENVIRONMENT

In order to use ARTEMA in optimal conditions

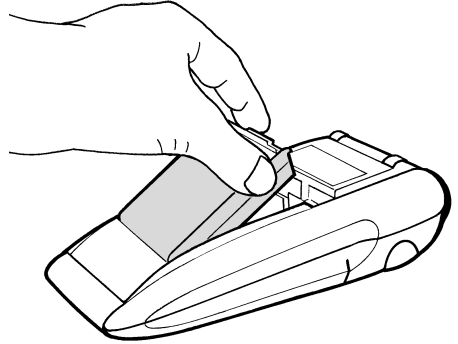
- Place the base on a clear, flat, leveled surface, close to the electrical outlet.
- A phone plug is required for ARTEMA portable.
- Place the terminal away from excessive heat sources, vibrations, dust, water and strong radio sources.

| Environmental conditions |         |         |
|--------------------------|---------|---------|
|                          | Minimum | Maximum |
| Operating temperature    | +5°C    | +40°C   |
| Storage temperature      | -25°C   | +55°C   |
| Relative humidity        | 50%     | 90%     |

# INSTALLATION AND CONNECTIONS

## BATTERY PACK

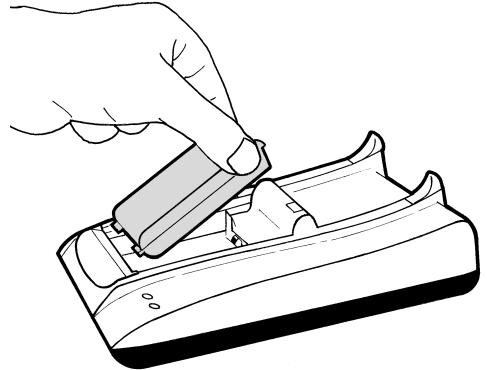
- It is important to **power off** the terminal before changing the battery pack.
- Position the battery pack in the back of the hand held unit.
- Press on the upper part of the battery until a “click” is heard.
- The terminal is ready for the charging cycle (see installation and connection).



## OPTIONAL BATTERY PACK INSTALLATION IN BASE UNIT (PORTABLE VERSION ONLY)

If you have a second battery pack you can charge it in the base unit ref. P4432-150 (radio base for “portable” version).

- Remove battery compartment cover and replace it with the battery pack.
- Press on the battery until you hear a “click”.
- The battery will start the charging cycle.

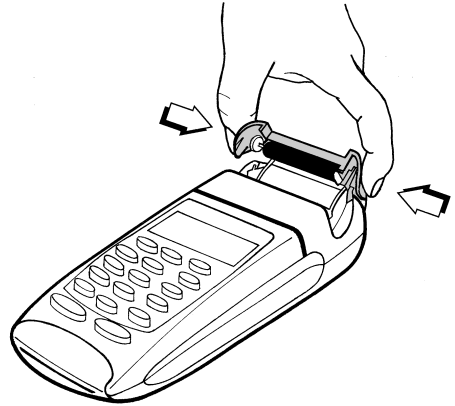


# INSTALLATION AND CONNECTIONS

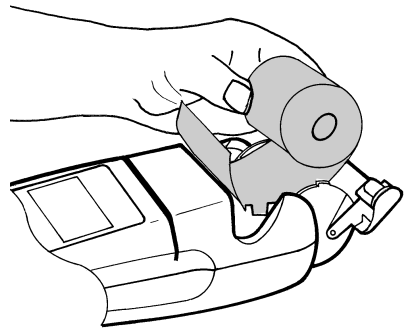
To obtain the highest printing quality, and to ensure maximum printer life span, only use recommended paper rolls 2 1/4" x 7/8" x 80 Ft.

## PAPER ROLL

- Open the printer casing by pressing simultaneously on both sides, and by pulling upwards.



- Place the roll of paper in the casing, paper output towards the pin pad. Leave a few inches of paper outside.

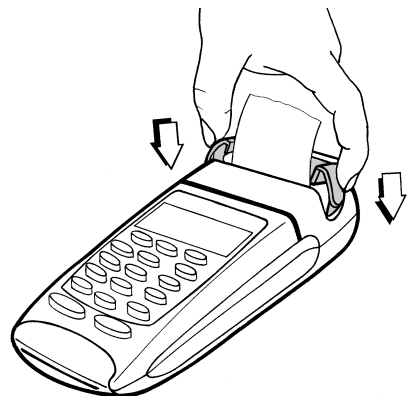


- Close the printer casing. You will hear a "click" to confirm the casing is closed.

***The printer will work only if the casing is closed and battery is charged.***

- Switch on the terminal, by pressing the "power on" key, and draw an inch of paper to check the roll is correctly placed in its casing.

- Tear paper to remove excess from printer.



# INSTALLATION AND CONNECTIONS

## MAINS SUPPLY

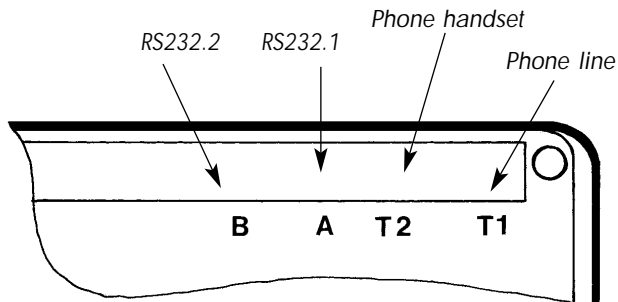
- Connect the power supply line to the electrical outlet (115V), and check that the left most green indicator on the base in on.

The electrical outlet needs to be close to the terminal, within reach, in order to quickly disconnect the terminal if necessary.

## TELEPHONE NETWORKS (PORTABLE VERSION ONLY)

- Connect to T1 the phone line at the rear of the base unit.

Base unit connections:



# INSTALLATION AND CONNECTIONS

## RADIO LINK SETUP (PORTABLE VERSION ONLY)

- The radio link setup is set by a subscription procedure between the hand held unit and the base (see radio linking document).
- This procedure is required for the hand held unit to work with the base.

## PERIPHERALS (PORTABLE VERSION ONLY)

Connectors RS232.1 and RS 232.2 allow you to connect:

- Electronic cash registers.
- Other RS232 peripherals such as external Pin pads, Check readers.

## CHARGING THE BATTERY PACK

*Before using the ARTEMA for the first time, leave the hand held unit to charge for 8 hours in order to fully charge the battery pack.*

*This should allow you to use the ARTEMA in good conditions.*

- After a charging cycle, an icon indicates the battery charge level.
- In order to maximize the number of transactions per battery charge:
  - we recommend you to change battery packs every two years
  - only use battery packs from THALES e - TRANSACTIONS.

# TROUBLE SHOOTING & SPARE SPARTS

Technical maintenance operations should only be done by approved servicing centers.

... however some problems can easily be solved:

## **ARTEMA stops during transaction processing or printing:**

- Recharge the battery by placing the hand held unit on the base for several hours.
- Check if the battery is correctly set in the hand held unit.
- Check if the printer casing is correctly closed.

## **The hand held unit is not communicating with the base (portable version only):**

- Check if the base is on (left most green indicator on).
- If the green indicator is off, check if the power cord is correctly plugged.
- Check the radio link between the base and the hand held unit.(look for radio icon on hand held unit).

## **Phone calls to processing centers fail (portable version only):**

- Check that the phone line is correctly connected.
- Check that your phone port works.
- Check that the telecommunication parameters contain the correct information.

## **Paper jams:**

- Check that the paper roll is correctly placed.
- Check that the paper casing is correctly closed.

## **Spare parts:**

Contact your terminal provider for spare parts and servicing.

# COMPLIANCE INFORMATION

## GENERAL



Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



This equipment has been tested and found to comply with the US and Canadian (Bi-National) Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, CSA C22.2, No. 950-95 \* UL 1950, Third Edition, including revisions through revision date June 22, 1998, which are based on the Fourth Amendment to IEC 950, Second Edition.

Listed hand held units are intended to be supplied and used with listed base units.

**Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.**

# COMPLIANCE INFORMATION

## ARTEMA PORTABLE

This equipment complies with part 68 of the FCC rules.

On the base unit is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. If requested, this information must be provided to the telephone company.

The REN is used to determine the quantity of devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of devices that may be connected to the line, as determined by the total REN's, contact the telephone company to determine the maximum REN for the calling area.

If the terminal equipment ARTEMA PORTABLE causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment ARTEMA PORTABLE, please contact the following for repair and/or warranty information.

**THALES e-TRANSACTIONS, Inc. Service Center  
4794 Clark Howell Highway, Suite 4  
ATLANTA, GA. 30349  
Tel: 404-767-9913**

If the trouble is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

THALES e-TRANSACTIONS, Inc. must make any necessary repairs to modem portion of this equipment in order to maintain valid FCC registration. Do not attempt to repair or service your modem, return it to THALES e-TRANSACTIONS, Inc.

This equipment cannot be used on public coin service provided by the telephone company.

Connection to Party Line Service is subject to state tariffs.

# COMPLIANCE INFORMATION

## ARTEMA MOBILE

This equipment complies with part 22 of the FCC rules. On the hand held unit is a label that contains, among other information, the FCC registration number for this equipment.

### FCC RF EXPOSURE INFORMATION

*Please read this information before use*

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency (RF) electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of this equipment complies with the FCC guidelines and these international standards.

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the equipment, or result in violation of FCC regulations.

This device has been tested for FCC RF exposure hand and body SAR compliance. During operation, a 0,5 cm (0,2 inches) separation distance should be maintained between the device and the user's/bystander's body (except hands, wrists, feet, and ankles) to ensure FCC RF exposure compliance.

For more information about RF exposure, please visit the FCC website at [www.fcc.gov](http://www.fcc.gov)

# THALES

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Tel: 770-393-2311 • Fax: 770-393-2177 • [www.dassaultat.com](http://www.dassaultat.com)

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## ***WE REALLY DO CARE***