ProComp 2TM

Quick Start and User's Guide



ProComp 2TM Quick Start and User's Guide

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Thought Technology Ltd. The Manufacturer:

2180 Belgrave Avenue Montreal, Quebec, Canada

H4A 2L8

Product Name: ProComp 2[™] Biofeedback System

Product #: T7400M, T7400-BRI

Device Name: ProComp 2[™] Biofeedback Unit

Device Number: SA7400, SA7400-BRI **REP**

EC

EMERGO EUROPE Molenstraat 15 2513 BH, The Hague

The Netherlands Tel: +31.70.345.8570 Fax: +31.70.346.7299

CLASSIFICATION



- Type BF Equipment
- Internally powered equipment
- Continuous operation



Read Instruction Manual

CAUTION

US Federal Law restricts this device to sale by or on order of licensed health care practitioners

WARNING

- Do not operate Myoscan-Pro sensor within 10 feet of an operating cellular phone, similar radio transmitting device, other powerful radio interference producing sources such as arc welders, radio thermal treatment equipment, x-ray machines or any other equipment that produces electrical sparks etc.
- Do not connect inputs or outputs of the encoder or sensors to line powered devices, except through the fiber optic
 cable.
- All encoders are totally isolated from line (110 or 220VAC) power due to battery operation and fiber optic
 connections to computers. However, many hospitals and the FDA require that computers, printers and any other
 equipment used with medical devices be electrically isolated from line voltage to UL or CSA medical safety
 standards.
- The PC used with ProComp 2 must be placed outside the patient/client environment (more than 3 meters or 10 feet) or the PC must comply with EN60601-1.1 (system safety).
- After use, the Disposable Electrodes may be a potential biohazard. Handle, and when applicable, dispose of these
 materials in accordance with accepted medical practice and any applicable local, state and federal laws and
 regulations.
- Radiated radio frequency electromagnetic fields can cause performance degradation in the MyoScan-Pro EMG sensor. In the worst case, an RF field strength of 22mV/M can cause a degradation of 1μV in the signal from the MyoScan-Pro sensor. Be sure to keep in mind that a very relaxed muscle should provide an EMG reading of approximately 1-3μV.

ATTENTION

- To prevent static discharge from damaging the sensor and/or encoders, use anti-static mats or sprays in your working area. A humidifier may also be used to prevent static environments by conditioning hot, dry air.
- Do not apply any electrode gel or equivalent directly on the sensor snaps. Always use electrodes as a medium between the sensor and the client.
- Do not use in the presence of a flammable anesthetic mixture with air or with Oxygen or Nitrous Oxide.
- Not to be immersed in water, clean case with a damp cloth only.
- Not for Diagnostic Purposes, Not Defibrillator Proof
- To prevent voiding warranty by breaking connector pins, carefully align white guiding dot on sensor plug with slot on sensor input.
- Sharp bends or winding the fiber optic cable in a loop smaller than 4 inches (10cm) may destroy the cable.
- A fiber optic cable not fully pushed into its receptacle may cause the unit not to operate; make sure that both ends of
 the cable are fully inserted into their receptive jacks and the nut is tightened firmly.
- Make sure to remove electrodes from sensor snaps immediately after use.
- Apply conductive gel only to electrodes, never put gel directly to sensor snaps.
- Always use electrodes between the subject and the sensor.

- Do not plug third party sensors directly into instrument inputs. Plug only Thought Technology Active Sensor cable
 connectors into instrument inputs. All EMG electrodes and third party sensors must be connected to MyoScan
 sensors, either directly or through an adapter.
- Remove batteries when the device is not being used for extended period of time. Please dispose of battery following national regulations. It is recommended that you replace batteries with Alkaline AA type.

CONTRAINDICATIONS

None

INTENDED PURPOSE

Biofeedback, Relaxation & Muscle Re-Education purposes.

NOTE

- No preventive inspections are required, maintenance must be performed by qualified personnel.
- The supplier will make available, upon request, circuit diagrams, component parts lists and description or other information required for the repair of product by qualified personnel.

Manual # SA7420 Rev 5.0

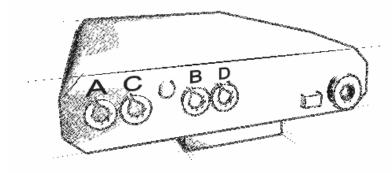
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Introduction

The ProComp $2^{\text{\tiny TM}}$ encoder is a two-channel, multi-modality physiological monitoring device for use with biofeedback software applications, such as Thought Technology's BioGraph Infiniti software with the Legacy Suite (ProComp 2 also works with other software). Although the device has four input connectors on its front panel, because of their disposition, only two sensors can be connected at a time. Inputs A and B sample data at 256 samples per second. Inputs C and D sample at 32 samples per second. Input A is dedicated to recording EEG as it incorporates an internal EEG sensor within its circuitry. The ProComp 2 device can be used for data acquisition, physiological signal monitoring and biofeedback.



System components

The ProComp 2 basic package includes the following hardware:

- One two-channel ProComp 2[™] encoder unit with one integrated EEG sensor
- One EEG Extender Cable
- One TT-USB or PRO-SB serial interface unit
- One supply of fiber-optic cable (15' cables)
- One 9-pin female to 25-pin male adapter (when using the PRO-SB unit)
- Other physiological sensors may be purchased separately

Setting-up the ProComp 2 Hardware

The ProComp 2 encoder samples the incoming sensor information signals and transmits the sampled data to the interface unit (TT-USB or PRO-SB) via a fiber-optic cable. The interface unit is connected to one of the host computer's USB or Serial (COM1 or 2) communication ports. It receives the data arriving from the encoder in optical form and converts it into the format that the port requires in order to communicate with the software. When using the PRO-SB unit, one of the computer's serial ports must be committed exclusively to handling the incoming data via the interface unit.

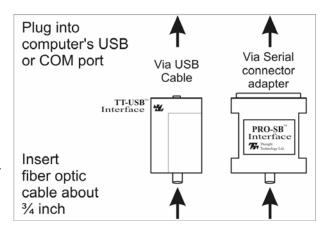
Note: Thought Technology encoders, sensors, and interface units carry parts that <u>may be damaged by static electric discharges</u>. Exercise care when handling this equipment in static-prone environments. Thought Technology instruments are not warranted against damage caused by static discharge. <u>In dry areas or carpeted areas</u>, use anti-static mats or sprays and condition the air by using humidifiers.

Connecting to the computer

Using the gray fiber-optic cable, insert one end of the cable into the fiber optic connector on the front of the ProComp 2 unit. Ensure that the cable is inserted all the way into the connector, about ³/₄ of an inch, and that the connector's head is tightened, but not too tightly. In the same fashion, insert the other end into the fiber optic connector on the rear face of the interface unit.

IMPORTANT: Winding the fiber optic cable in a loop smaller than 4 inches (10 cm) or bending it sharply may damage the cable!

If you're using a TT-USB interface, connect one end of the Type-A to Mini-B adapter cable to the interface unit and the other end to one of your computer's USB ports. If you are using a PRO-SB interface (only for ProComp+ or Legacy mode), you need to have a computer with a free and dedicated serial port. On a desktop, this is usually COM 1 or 2. On a laptop, COM1 is generally available. The interface fits any 25-pin male connector. If a 9-pin connector is present, the 9-pin female to 25-pin male adapter (included in your system) must be used.



Note: Many new computers do not have a serial port. In this case, you can use a PCMCIA to Serial adaptor. Please contact your computer vendor for a brand that is compatible with your computer. USB to Serial adaptors can also work, but not with all computers.

Battery Replacement

The ProComp 2 device requires a single AA, 1.5 volt, alkaline battery. Looking at the underside of the ProComp 2 device, you will see a small panel with engraved arrow (<<) marks. To open it, place your thumb on the arrows and push out, towards the side. The door should snap open. When the door has been slid out, place one AA battery in the slot, respecting the polarity, as indicated in the compartment. Slide the plastic door back into the ProComp 2 case, gently pushing it in until you feel the click of the locking mechanism. To remove the battery, slide the cover off and tap the ProComp 2 against your hand, until the battery slides out.

Since each sensor draws a small amount of power from the batteries when connected to the ProComp 2, it is better to connect only the sensors that are going to be used for a session before you start recording; this will ensure maximal battery life. Most Thought Technology software applications will display a battery power indicator; we recommend that you replace the battery as soon as this indicator falls below about 50% of the battery power.

Sensor Inputs

In order to record a given physiological signal, the proper type of sensor must be connected to one of the ProComp 2's front panel inputs. The device is able to monitor two physiological signals, simultaneously. Sensors can be connected to inputs A and B, A and D, C and B or C and D, but not from A and C or B and D. Trying to connect sensors in inputs A and C or B and D can damage the ProComp 2, since these connectors have been purposely placed too close together to allow it. Possible sensor types include:

Electroencephalography (EEG) Electrocardiography (EKG)
Electromyography (EMG) Respiration (waveform)

Skin Temperature Blood Volume Pulse (waveform)

Skin Conductance Third-party through the Voltage Isolator

Force sensor adapter Goniometer adapter

Sensor Input configurations

- <u>Input A</u>: Fast Input. Samples data at 256 samples per second. **Input A already** incorporates an EEG sensor in its circuitry, and so, it is dedicated to EEG. Only an EEG extender cable can be connected to this input.
- <u>Input B</u>: Fast Input. Samples data at 256 samples per second. Can be used to monitor EEG, EKG or BVP. Requires that an external active sensor be connected.
- <u>Inputs C and D</u>: Slow Inputs. Sample data at 32 samples per second. Can be used to monitor any other sensor type. Require that external active sensors be connected.

The following table outlines all the sensor configurations, it should be recalled that it is not possible to use inputs A/C or B/D simultaneously.

1st Input 2nd Input Sensors Sensors Α EEG cable only В EEG, EKG or BVP D SC. Temp. RESP. MvoScan-Α EEG cable only Pro, Voltage isolator, etc. С SC, Temp, RESP, MyoScan-Pro, В EEG or EKG Voltage isolator, etc. С SC, Temp, RESP, MyoScan-Pro, D SC, Temp, RESP, MyoScan-Voltage isolator, etc. Pro, Voltage isolator, etc.

Possible Sensor Combinations

Protected pins

A number of regulatory bodies (like the FDA in the USA) have adopted safety specifications requesting that all medical products for physiological monitoring be manufactured with electrode leads that have no exposed metal plugs. For this reason, the ProComp 2 encoder and all our sensors use specially designed connectors that have all metallic surfaces recessed within the plastic casing. These connectors, with protected pins, require some care when plugging and unplugging the sensors to the ProComp 2 device or the extender cable to the sensor head.

Guiding dot

When connecting a sensor into the ProComp 2, ensure to properly line up the guiding dot on the plug with the connecting socket, at approximately 10:00 O'clock. Forcing the plug in the jack in any other position may damage your equipment.

Electrical interference

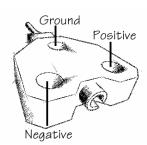
When performing a biofeedback session, it is best to avoid placing the ProComp 2 near the computer, display monitor or any other electrical device, where it can be exposed to electromagnetic fields. We recommend that you try to keep the encoder within the patient's natural electrical field. In most cases, you can do so by fastening the belt-clip to the client.

Sensor information

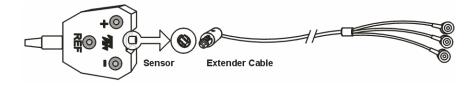
The Thought Technology sensors are completely non-invasive and require little or no skin preparation, when used for feedback purposes. They include sensors specialized for electromyography (EMG), electroencephalography (EEG), electrocardiography (EKG), blood volume pulse (BVP), skin conductance (SC), respiration and temperature.

Sensor anatomy

The EMG, EKG and EEG sensors have a positive, a negative and a ground electrode. The signal is measured between the positive and negative. The ground acts as a reference point, and is used for filtering out electrical "noise" that is picked-up from all three electrodes. Sometimes, the negative electrode is called the reference.



When an extender cable is being used, remember to remove the electrodes from the snaps on the sensor head. Only one set of electrodes should be connected at one time.



Contact with the skin

Because some biofeedback sensors are applied directly to the skin or scalp, some consideration must be given to using proper hygienic controls. Whenever possible, we recommend the use of disposable electrodes. The electrodes on skin conductance sensors are replaceable but not disposable. They must be cleaned with an alcohol wipe after each use.

Disposable electrodes

Before an EMG or an EKG sensor can be used, you must snap on a set of disposable electrodes. Three types of electrodes are available from Thought Technology: Triodes, Single-Strip and Uni-Gels. The Triode and Single electrodes are dry, while the Uni-Gel electrodes are covered with a thin layer of conductive gel, to enhance their contact with the skin. All three types are designed like snap-on buttons. The Triode electrodes can be snapped directly onto the sensor head. The Single and Uni-Gel electrodes are designed to be used with extender cables.

Skin preparation

Many physiological monitoring devices will require you to prepare the client's skin before affixing sensors. Because they have high input impedance, the Thought Technology sensors can be utilized with little or no skin preparation, depending on the purpose of your intervention. For most biofeedback applications, simply cleaning the skin with a bit of cotton and rubbing alcohol is sufficient to ensure good sensor readings.

For EEG biofeedback and muscle function assessments using EMG, we recommend that you use abrasive paste and conductive gel. Since body hair can form an insulated layer between the skin and the electrode surface, be careful not to place the electrodes over hairy areas. In some rare cases, shaving may be required.

Triodes and extender cables

The EMG sensor can be used with a Triode electrode, snapped onto the sensor head, or with Single electrodes, individually snapped onto each of the three leads of an extender cable. If you have to alternate between the two methods, make sure to leave only one set of electrodes connected to the sensor at any one time. Forgetting to remove the unused electrodes could degrade the quality of the recorded signal because of the extra susceptibility to noise.

Equipment storage

As a general rule, we recommend that you remove any electrode from the sensor heads and extender cable leads when you are done using your equipment. Many electrodes are coated with a very conductive substance that can cause the sensor's metal parts to corrode if they are left in contact with it for long periods of time. Also, please be careful, when unsnapping electrodes, not to damage the wires. Avoid twisting and pulling on the wires by holding the sensor head or the extender cable's rounded snap.

General Instructions for Use

- 1. Using the fiber-optic cable and the TT-USB or PRO-SB Interface, connect the ProComp 2 to the computer. Make sure that both ends of the cable are <u>inserted all the</u> way into the connectors (about ³/₄ inch). Remember to tighten the connector knobs.
- 2. Wind excess fiber-optic cable into a <u>large</u> loop (approx. 4") and use a twist-tie to hold it in place.
- 3. Plug the sensors you wish to use into the input connectors on the front of the ProComp 2 and connect the required extender cable(s), making sure to use clean electrodes, onto the sensor head.
- 4. If necessary, clean the skin area where the electrodes will be placed.
- 5. Place the encoder on or near the patient, to avoid signal degradation. For EEG, the ProComp 2 can be can be clipped to the collar of a shirt, clipped to a headband or placed in a shirt pocket. For non-EEG uses, clip to a belt.
- 6. Turn the ProComp 2's power switch ON and check that the green power indicator is lit; if it is not, turn the device OFF and check the condition and orientation of your battery. If the green indicator starts to flash, there is approximately ½ hour of use left in the battery (if using an alkaline battery). Keep a spare battery nearby.
- 7. Start the software program as instructed in the user's manual.
- 8. After the session, turn the device's power OFF and disconnect all electrodes. We recommend that you clean the EEG electrodes as soon as possible after use.

Using the ProComp 2 with BioGraph Infiniti

The BioGraph Infiniti Legacy Suite incorporates a number of channel sets and screens that are specially designed for use with the ProComp 2 device. Generally, these are named starting with the "P2" identifier (ex. *P2 eeg-a sc-d.chs*). For each ProComp 2 channel set, there may be a different sensor configuration. You can use the *Physical Configuration* button to verify which sensor needs to be connected to which input for the selected channel set.

For more information about the different channel sets and screens available for use with the ProComp 2, read the "P2 Biograph Infiniti Legacy Suite" instruction document (in PDF format) that is installed on your system with the Legacy Suite.

For more information on using the BioGraph Infiniti software, please refer to the software manual or on-line help document.

Note: When the ProComp 2 encoder is sold with the Infiniti software, an Encoder Key Code and an Application Key Code are generated to allow the software to recognize this particular ProComp 2. If you do not have these key codes, you will not be able to use the Infiniti software with your ProComp 2.



Technical Support and Order Placing

Returning Equipment

Be sure to call for an authorization number (RA) before returning any equipment!

- 1. Send the unit(s) **postage prepaid** and **insured**, with proof of purchase to one of the addresses below.
- 2. If you are shipping from outside Canada and the USA to Canada, mark the package 'Goods to be repaired Made in Canada' to avoid unnecessary customs charges.
- 3. All customs and duties charges will be billed to you if incurred by sending the unit to the **wrong** address.
- 4. Provide a **detailed** description of the problem you are experiencing, and your telephone/fax number (see form on the last page of this manual.

In the USA, ship insured to:

Thought Technology Ltd. Cimetra LLC 20 Gateway Drive Plattsburgh, New York 12901 USA

In Canada and all other countries, contact your dealer or ship insured to:

Thought Technology Ltd. 2180 Belgrave Avenue Montreal, Quebec Canada H4A 2L8

Technical Support Line



Product Numbers & Accessories

Device and sensors

T7400 (-A, -BRI, -C, M) ProComp 2 Encoder (protected pins)

T9305M EEG Sensor

T9401M-50 MyoScan-Pro EMG sensor (50Hz) (protected pins) T9401M-60 MyoScan-Pro EMG sensor (60Hz) (protected pins)

SA9308M BVP-Flex/Pro Blood Volume Pulse sensor (protected pins)
SA9309M SC-Flex/Pro Skin Conductance sensor (protected pins)
SA9310M Temp-Flex/Pro Temperature sensor (protected pins)
SA9311M Resp-Flex/Pro Respiration sensor (protected pins)

T9405 Voltage Isolator T9306M EKG Sensor

T9540 Force Sensor Adapter T9545 Goniometer Adapter

Accessories

SA9350 Protected Pin replacement sensor cable
SA3403 Electrode extender cables (three pack)
T8720M Sensor extender cable (protected Pin)

T3402M Triode disposable adhesive electrodes (x 100)

T3404 Single disposable electrodes (x 300)

T3425 UNI-GEL electrodes (x 100)

SA8950 PRO-SB Interface
T7700 TT-USB Receiver Kit
T8952 Dual PRO-SB interface
T8740 EEG DIN Extender cables

T8725 EEG Extender Cables Monopolar T8730 EEG Extender Cables Bipolar

T3470 Nuprep EEG skin prepping gel 114 gm

T3480 Elefix electrode gel 180 gm

Placing Orders

Outside USA

Tel: 1-514-489-8251 Fax: 1-514-489-8255

In USA Toll-Free Tel:1-800-361-3651

E-Mail: mail@thoughttechnology.com

Or contact your local authorized distributor.

Specifications

System Accuracy +/- 5% (see notes below)

PROCOMP 2 ENCODER SPECIFICATIONS

Approx. Size $2\frac{1}{2}$ " x $2\frac{3}{16}$ " x $\frac{5}{8}$ " (64mm x 56mm x 16mm)

Approx. Weight w/o Batteries 40 g

Input Impedance (Input A) $>1,000,000 \text{ m}\Omega$

Input Impedance (Input B, C, D) $>2 \text{ m}\Omega$

Resolution (Input A only) $\leq 0.1 \,\mu\text{V RMS}$ Signal Input Range (Input A) $0\text{-}200 \,\mu\text{V RMS}$ Signal Input Range (Input B, C, D) 2.0V - 3.6V

CMRR (Input A) ≥-130 @ 2 Hz to 45 Hz

Channel Bandwidth 0 Hz – 45 Hz

Sample Rate/Channel (A, B) 200 OR 256 samples/second Sample Rate/Channel (C, D) 20 or 32 samples/second

Supply Voltage 1.0V - 1.6V

Current Consumption 75 mA - 150 mA @ 1.5 V Battery Life (Alkaline) 10 Hours (minimum)

Low Battery Warning $1.1 \text{ V} \pm 0.2 \text{ V}$

Data Output Protocol 19.2 or 38.4 Kbaud, 8 Bits, 1 Stop, No Parity

Analog to Digital Conversion 13 bits

EEG- Sensor (T9305M)

Size (Approx.) 37mm x 37mm x 12mm (1.45" x 1.45" x 0.45")

Weight 25g (1 oz)

Input Impedance $1,000,000M\Omega$ in parallel with 10pF

 $\begin{array}{ll} \text{Input Range} & 0-200 \mu V \\ \text{Sensitivity} & <0.1 \mu V_{RMS} \end{array}$

Bandwidth 2Hz – 40Hz (software limited)

Accuracy $\pm 5\%$, $\pm 0.3 \mu V_{RMS}$

MyoScan Pro EMG Sensor (T9401M)

Size (Approx.) 37mm x 37mm x 15mm (1.45" x 1.45" x 0.60")

Weight 25g (1 oz)

Input Impedance $1,000,000M\Omega$ in parallel with 10pF

Input Range $0 - 400 \mu V_{RMS}$, $0 - 1600 \mu V_{RMS}$

Sensitivity $<0.1 \mu V_{RMS}$

Bandwidth 20Hz -500Hz, 100Hz -200Hz

Accuracy $\pm 5\%$, $\pm 0.3 \mu V_{RMS}$

Temperature Sensor (SA9310M)

Length (Approx.) 152cm (60") Weight 10g (0.33 oz)

Temperature Range $10^{\circ}\text{C} - 45^{\circ}\text{C} (50^{\circ}\text{F} - 115^{\circ}\text{F})$

Accuracy $20^{\circ}\text{C} - 40^{\circ}\text{C} (68^{\circ}\text{F} - 104^{\circ}\text{F}) \pm 1.0^{\circ}\text{C} (\pm 1.8^{\circ}\text{F})$

HR/BVP Flex/Pro Sensor (SA9308M)

Size (Approx.) 20mm x 34mm x 10mm (0.72" x 1.33" x 0.41")

Weight 20g (0.66 oz)

Input Range Unitless quantity displayed as 0% - 100%

Accuracy $\pm 5\%$

Respiration Sensor (SA9311M)

Size (Approx.) 132cm (52" Long)

Weight 30g (1.0 oz)

Range Unitless quantity displayed as 0% – 100%

EKG- Sensor (T9306M)

Size (Approx.) 37mm x 37mm x 12mm(1.45" x 1.45" x 0.45")

Weight 25g (1 oz)

Input Impedance $1,000,000M\Omega$ in parallel with 10pF

 $\begin{array}{ll} \text{Input Range} & 0-12\text{mV} \\ \text{Sensitivity} & <1\mu\text{V}_{\text{RMS}} \end{array}$

Bandwidth 0.05Hz - 40Hz (software limited)

Accuracy $\pm 5\%, \pm 3\mu V_{RMS}$

Skin Conductance Flex/Pro Sensor (SA9309M)

Size without electrode 3.5 cm (1.4")

leads (approx.)

Size with electrode $15 \text{ cm } (6.0^{\circ})$

leads (approx.)

Cable Length (approx.) 127 cm (50") Weight (approx.) 25 g (1 oz) Signal Input Range $0-30.0~\mu S$

Accuracy $\pm 5\%$ and $\pm 0.2 \mu S$

Voltage Isolator (SA9405)

Size (Approx.) 95mm x 57mm x 32mm (3.75" x 2.25" x 1.25")

Weight 55g (2 oz)Input Impedance $1M\Omega$

Input Range 0 - 200 mV, 0 - 2 V, 1.952 - 3.648 V

Bandwidth 0Hz – 1KHz

Accuracy $\pm 5\%$ and ± 1 mV (0 - 200mV range)

±5% and ±10mV (0 – 2V range) ±5% (1.952V – 3.648V range)

Note: ProComp 2[™] and its sensors are sensitive electronic instruments and should be handled as such. Be especially careful to avoid both pulling on the electrode cable and getting moisture or electrode gel on the sensor snaps. If necessary, wipe the surface with a damp cloth or use a moistened Q-tip to remove gel from inside the sensor snaps. Wipe with a dry cloth.

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Warranty

The ProComp 2TM encoder and all equipment including optional items are guaranteed to be free from defects in material and workmanship for 1 year from the date of purchase.

In the unlikely event that repair is necessary, call Thought Technology Ltd. to receive a Return Authorization. Then send the unit back by a traceable method--Thought Technology will not be responsible for items not received. We will repair or replace your unit(s) free of charge.

This warranty does not apply to damage incurred through accident, alteration, or abuse, nor to sensor damage created by static electricity. Do not use this equipment in a dry, static area unless using an anti-static mat or anti-static spray on carpeted areas.

Do not immerse in water.

IMPORTANT: Remove dead batteries promptly to prevent corrosion damage.

Extended Warranty Optional

Please contact Thought Technology for further details.

Repair Return Form

Be sure to call for authorization before returning any equipment!

Remove and include with the unit(s).

Include copy of original invoice and return to the address in the Returning Equipment section.

Name	
Company	
Address	
Phone No.	
Fax No.	
Date Purchased	
From Whom	
Model Name	
Serial Number	
Problem	