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Exergen 124275S

Exergen TemporalScanner Infrared Thermometer User Manual

Model: 124275S

INTRODUCTION

This manual provides essential information for the proper use, maintenance, and troubleshooting of your Exergen TemporalScanner Infrared Thermometer. This device is designed for accurate measurement of arterial (core) temperature, offering a reliable alternative to traditional oral, rectal, and tympanic methods.

The Exergen TemporalScanner, model 124275S, is a clinical-grade instrument widely used in professional healthcare settings due to its precision and ease of use.

PRODUCT OVERVIEW

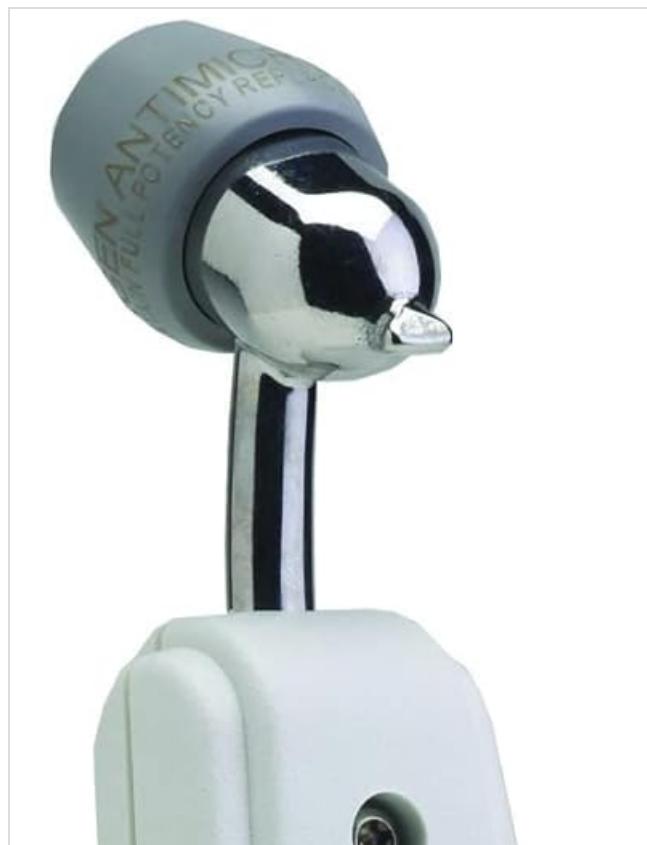




Figure 1: Exergen TemporalScanner Infrared Thermometer. The image displays the device with its sensor head, main body, and digital display showing "37.4". A label on the device indicates "Dirty lens = low temps" and provides instructions to "Clean center lens every two weeks with Q-tip and alcohol."

The Exergen TemporalScanner measures temperature by scanning the temporal artery on the forehead. Key features include:

- Measures arterial (core) temperature, which is comparable to rectal temperature and approximately 0.8°F (0.4°C) higher than oral temperatures.
- Rugged and reliable construction, designed for durability in various environments.
- Chemically resistant materials allow for thorough disinfection.
- Digital display for clear temperature readings.

SETUP

Battery Installation

The Exergen TemporalScanner requires one 9V battery for operation. To install or replace the battery:

1. Locate the battery compartment cover, typically on the back or bottom of the device.
2. Open the compartment cover.
3. Insert a new 9V battery, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Initial Inspection

Before first use, inspect the device for any visible damage. Ensure the sensor lens is clean and free of debris. Refer to the Maintenance section for cleaning instructions.

OPERATING INSTRUCTIONS

For accurate temperature measurement, follow these steps:

1. **Positioning:** Place the sensor head gently on the center of the forehead, midway between the eyebrow and the hairline.
2. **Activate Scan:** Press and hold the scan button (often a large, prominent button on the device body).
3. **Scan Motion:** While holding the button, slowly slide the thermometer straight across the forehead to the hairline, then lift it off the forehead.
4. **Read Temperature:** Release the scan button. The temperature reading will be displayed on the LCD screen.

Note: For optimal accuracy, ensure the skin is dry and free of obstructions like hair or sweat. If the patient is sweating, scan behind the earlobe on the neck for a more accurate reading.

MAINTENANCE

Cleaning the Sensor Lens

A dirty sensor lens can lead to inaccurate or low temperature readings. It is recommended to clean the center lens every two weeks, or more frequently if needed.

- Gently clean the center of the lens with a cotton swab (Q-tip) moistened with rubbing alcohol.
- Allow the lens to air dry completely before using the thermometer.

General Cleaning and Disinfection

The device is made of chemically resistant materials, allowing for effective disinfection.

- Wipe the exterior of the thermometer with a soft cloth dampened with a mild disinfectant solution or rubbing alcohol.
- Do not immerse the thermometer in liquid.
- Avoid using abrasive cleaners or solvents that could damage the device.

Storage

Store the thermometer in a clean, dry place at room temperature, away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate or Low Readings	Dirty sensor lens; improper scanning technique; patient sweating.	Clean the sensor lens as per Maintenance section. Ensure proper scanning technique. If sweating, scan behind the earlobe.
No Display/Device Not Turning On	Dead or improperly installed battery.	Replace the 9V battery, ensuring correct polarity.
Error Message on Display	Device malfunction or environmental issue.	Refer to the specific error code in the full product manual (if available) or contact customer support. Try re-scanning.

SPECIFICATIONS

Feature	Detail
Model Number	124275S
Brand	Exergen
Display Type	Digital
Power Source	1 x 9V Battery (required)
Special Feature	High Accuracy
Color	White
Outer Material	Plastic
Included Components	Thermometer, battery, sample covers
Connectivity Technology	Bluetooth
Package Dimensions	9.45 x 6.65 x 2.83 inches
Item Weight	7.51 ounces
Manufacturer	Exergen

WARRANTY AND SUPPORT

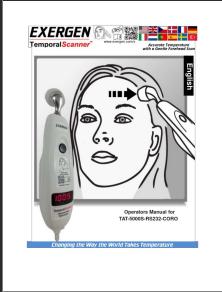
Warranty Information

The Exergen TemporalScanner is protected by a **LIFETIME WARRANTY**, reflecting the manufacturer's confidence in its rugged and reliable construction.

Customer Support

For further assistance, technical support, or warranty claims, please contact Exergen customer service. Refer to the official Exergen website or product packaging for the most current contact information.

Related Documents - 124275S

	<p><u>Exeren TAT-5000 TemporalScanner Infrared Thermometer Operator's Manual</u></p> <p>Operator's manual for the Exeren TAT-5000 TemporalScanner, a handheld infrared thermometer for accurate and gentle forehead temperature measurement. Includes safety instructions, operating procedures, care and maintenance, troubleshooting, specifications, and electromagnetic compatibility declarations.</p>
	<p><u>Exeren TemporalScanner TAT-5000S-RS232-CORO Operators Manual</u></p> <p>Operator's manual for the Exeren TemporalScanner TAT-5000S-RS232-CORO, a handheld infrared thermometer for medical professionals. Includes instructions for use, safety information, care and maintenance, specifications, and electromagnetic compatibility data.</p>
	<p><u>Exeren TAT-5000S-RS232 TemporalScanner Operation Manual</u></p> <p>Comprehensive operation manual for the Exeren TAT-5000S-RS232 TemporalScanner, an infrared temporal artery thermometer. Covers features, safety instructions, usage, care, maintenance, troubleshooting, and technical specifications.</p>
	<p><u>Exeren TemporalScanner TAT-2000 with Bluetooth: User Manual and Specifications</u></p> <p>Comprehensive user manual and technical specifications for the Exeren TemporalScanner TAT-2000 with Bluetooth infrared thermometer, detailing its use, features, safety information, and clinical accuracy.</p>
	<p><u>Exeren TemporalScanner TAT-2000C/Original Instructions for Use</u></p> <p>Comprehensive instructions and guide for the Exeren TemporalScanner TAT-2000C/Original and SmartGlow models, covering setup, usage, features, and maintenance for accurate temporal artery temperature readings.</p>
	<p><u>Exeren TAT-5000S-TTL Supplemental Instructions for Use - Accurate Forehead Temperature Measurement</u></p> <p>Supplemental instructions for the Exeren TAT-5000S-TTL TemporalScanner, a handheld infrared thermometer for medical professionals. Learn about intended use, safety precautions, care, maintenance, and troubleshooting.</p>



[pdf] Specifications Warranty

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TemporalScanner™ Temporal Artery Thermometer Model Warranty Lifetime Part Numbers 124275

Infrared Arterial Calibration exergen tat temporal thermometer specifications gsa quickmedical 80

EXERGEN TemporalScannerTM Temporal Artery Thermometer: Model TAT-5000

Part Numbers: Warranty: Lifetime 124275 134203 129462 TAT-5000 Infrared

Temporal Artery Thermometer - Arterial Calibration Resposable Caps Box of 1000

caps -Reusable on same patient, or between patients after disinfecting spr...

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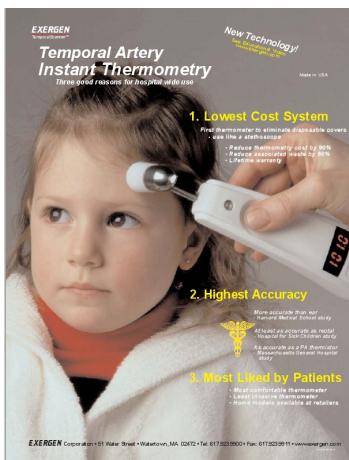
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[pdf] Flyer Warranty Accessories

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EXERGEN TemporalScannerTM Temporal Artery Instant Thermometry Three good reasons for hospital wide use

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Reduce thermometry cost by 90 Reduc...

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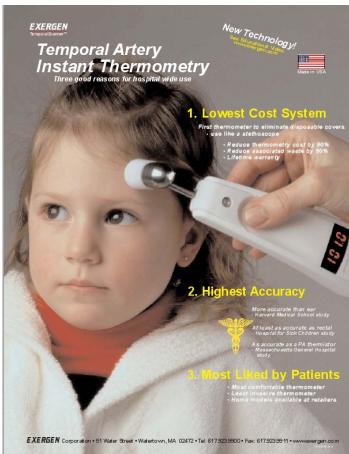
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EXERGEN TemporalScannerTM Temporal Artery Instant Thermometry Three good reasons for hospital wide use

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Temporal Artery Thermometer - Oral Calibration Resposable Caps Box of 10...
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[pdf] Declaration of Conformity Price List

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EXERGEN MEDICAL PRODUCTS Model Selection and Price List Authorized Stocking Distributors Product pictures, descriptions, and associated studies can be found at www.exergen.com PART NO. INFRARED TEMPORAL ARTERY THERMOMETRY 124275 TemporalScannerTMTAT-5000 Arterial Core Calibration

Language score: 94 file-size: 157.58 K page_count: 9 document_date: 2002-10-06

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[pdf] Warranty

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Changing the Way the World Takes Temperature Presented by: Marybeth Pompei, Senior Vice President Chief Clinical Scientist Take your index finger, put it on the center of your forehead, drag it on a line over your eyebrow and then touch behind your earlobe. If you had the Exergen thermometer in yo...

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EXERGEN
TEMPORAL SCANNER

Ergen TemporalScanner Calibration Choices

Ergen offers two options in rating Temporal Thermometers. The standard method is to calibrate to provide a true core temperature, and the other is the same instrument, but recalibrated to display an oral equivalent temperature.

- Standard:** The standard model, like a pulmonary artery catheter or esophageal probe is intended to measure core body temperature. It is calibrated to read core temperature, approximately 0.4°F (0.7°C) higher than oral temperatures. This is to fit the model's subjective clinical needs.
- An upward adjustment is required to account for the higher temperatures in order to achieve feverless temps (see attached chart).**
- Oral Equivalent:** The model with the oral-equivalent calibration is programmed to compute the normal average cooling effect of the mouth, and automatically reduces the high oral temperatures to a more normal level. This model is intended to maintain existing protocols for fever based on oral temperature, and results in a reading consistent with the WHO's 37.5°C mean normal oral temperature, in the range of 98.6° to 99.6°F (37.0° to 37.5°C) for most normal body temperature measurements.
- No upward adjustment is required if the hospital's protocol is based on an oral temperature.**

While oral temperature has never been considered a gold standard, and can easily mislead the clinician in identifying a fever, historically, it is the most common site for measuring body temperature. The oral equivalent model is intended to maintain the same protocol based on an oral temperature, despite the fact that there can be a one-degree difference (cooling effect) between oral and rectal temperatures.

Nonetheless, it is an easy way to change calibration memory (a normal temperature will be considered 98.6°F (37°C) in the world in general, including China), despite the site being measured, and despite the fact that only 9% of the world has oral as a top priority. Accordingly, the oral equivalent model is the only model that can be calibrated to oral, and is valid on the uncorrected standard model, but no change in protocol is required when using the oral equivalent model.

- Ergen TemporalScanner Thermometer, Model TAT 6000, Amerital (Standard) Model:**
Part Number 1245
- Ergen TemporalScanner Thermometer, Model TAT 5000, Oral Equivalent Model:**
Part Number 1247

For further information, please contact Customer Service:
Ergen Corporation, Washington, MA
617-523-9960 x 624
www.ergenusa.com or w-TATthermometer.org



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Calibration Choices Nurse s Center Medical 873071 medical exergen sites 2 2022 09 ||

Exogen TemporalScanner Calibration Choices Exogen offers two options in using Temporal Artery Thermometers. The standard TemporalScanner is calibrated to provide a true core temperature, and the other is the same instrument, but recalibrated to display an oral equivalent temperature. Standard: Th...

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EXERGEN
TEMPORALSCANNER

Ergen TemporalScanner Calibration Choices

Ergen offers two options in using Temporal Artery Thermometers. The standard TemporalScanner is calibrated to provide a true core temperature, and the other is the same instrument, but recalibrated to display an oral equivalent temperature.

- **Standard:** The standard model, like a pulmonary artery catheter or esophageal probe, is measuring arterial core temperature. Arterial temperature is closer to rectal temperature, approximately 0.5° F (0.3° C) higher than oral temperatures. This is by far the model selected by the use-of-maturity hospital.
- **An oral spread model is required to account for the higher temperatures to be found in oral axillary rectal and forehead temperatures (please see attached guidelines).**
- **Oral Equivalent:** The model with the oral equivalent calibration is programmed to provide a core temperature reading. The instrument is calibrated to provide the higher arterial temperature by that means. This calibration allows the hospital to maintain strict protocols for fever workups based on oral temperature, and it is a modeling of the core temperature. The oral equivalent calibration is valid in the range of 96.6° - 99.7° (36.1° - 37.5°) C. Commonly seen with normal oral temperature measurements.
- **No change in protocol is required if the hospital's protocol is based on an oral temperature.**

While oral temperature is often considered a gold standard, and is nearly identical to the skin, it is clearly not the best, but is the most common use for measuring body temperature. As such, the level of temperature requiring a fever/routine workup is typically based on oral temperature. This is because the oral temperature is a degree difference (orally/rectally) among temperature measurements.

Notwithstanding, it is not always easy to change collection policy (a normal temporal is still considered 98.6° F (37.0° C) in the world in general) including changing collection policy, changing protocol, and changing the way the hospital is run (including changing the way the hospital is run).

Additionally, Ergen offers oral equivalent calibration. The measurement is still in valid as the instrument model, but it change in protocol is required when using the oral equivalent model.

- **Ergen TemporalScanner Thermometer: Model TAT 5000. Arterial (Standard) Model: Fan Number 12437**
- **Ergen TemporalScanner Thermometer: Model TAT 5000. Oral Equivalent Model: Fan Number 12437**

For further information, please contact Customer Service:
Ergen Corporation, Wauwatosa, MA
617-926-0000
www.ergen.com or www.ETHERMETER.org

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Microsoft Word Adjustment in Fever Thresholds with TA 3 Marybeth Exergen TemporalScanner
Calibration Choices artery thermometer to standard temperature measurements pediatric intensive care
unit patients Pediatr Crit Care Med 2005 Sep 6 5 557 61 11 Dybwik K Nielsen EW Infrared temporal
measurement Journal of 1 Pompei F M Non invasive thermometry Physics Physiology and Clinical
Accuracy presented at Medical Thermometry for SARS Detection SPIE Defense Security Symposium
available Conference Proceedings April 2004 2 Carroll DL Finn C Gill S Sawyer J Judge B The
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Exeren TemporalScanner Calibration Choices Exeren offers two options in using Temporal Artery Thermometers. The standard TemporalScanner is calibrated to provide a true core temperature, and the other is the same instrument, but recalibrated to display an oral equivalent temperature. Standard: Th...

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