

## Exergen TemporalScanner™ Temporal Artery Thermometer (TAT 5000S)



Full integration with **740SELECT**  
Series Vital Signs Monitors



### Features

#### Superior, non-invasive clinical accuracy

Proven to be as accurate as the most invasive methods of taking temperature (pulmonary artery catheters, esophageal probes, rectal).

#### Quick measurement time

Captures core body temperature in just seconds.

*Lightly pass the scanner over the patient's forehead, then momentarily touch the neck area behind the earlobe, to account for any cooling of the forehead.*

#### Compatible with all patient types

#### Lifetime Exergen Warranty

#### Substantial cost savings

Reduces direct cost of thermometry by 90%.

Ensures thermometry system payback in approximately eight months.

Eliminates the need for disposables.

## Specifications — TAT 5000S

Clinical Accuracy:  $\pm 0.2^{\circ}\text{F}$  or  $0.1^{\circ}\text{C}$  per ASTM E1112

Clinical Performance (versus Oral Thermometry), per ISO 80601-2-56:

Clinical Bias:  $0.52^{\circ}\text{C}$

Limits of Agreement: 1.24

Clinical Repeatability: 0.13

Clinical Performance (versus Rectal Thermometry) per ISO 80601-2-56:

Clinical Bias:  $0.02 - 0.07^{\circ}\text{C}$

Limits of Agreement: 0.87 - 1.15

Clinical Repeatability: 0.13

Display value: Temperature

Range:  $61^{\circ}\text{F}$  to  $110^{\circ}\text{F}$  ( $16^{\circ}\text{C}$  to  $43^{\circ}\text{C}$ )

Arterial heat balance range for body temperature\*:  $94^{\circ}\text{F}$  to  $110^{\circ}\text{F}$  ( $34.5^{\circ}\text{C}$  to  $43^{\circ}\text{C}$ )

Operating Environment:  $60^{\circ}\text{F}$  to  $104^{\circ}\text{F}$  ( $16^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ )

Storage Environment:  $-4^{\circ}\text{F}$  to  $122^{\circ}\text{F}$  ( $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ )

Resolution:  $0.1^{\circ}\text{F}$  or  $^{\circ}\text{C}$

Response time:  $\sim 0.04$  seconds

Time displayed on scanner: 30 Seconds

Battery type and life: 9-volt alkaline battery, providing 15,000 readings\*\*

Size: 2.0" x 8" x 1.25" (5.0cm x 20.0cm x 3.0cm)

Weight: 0.7lb (318g)

EMI and RFI Protection: Stainless steel enclosure on upper part inside of casing

Display type and size: Large, bright red LED's on Exergen Scanner,

Numeric Temperature field on **740SELECT**

Materials:

Industrial duty impact resistant casing

Chemically resistant casing and lens

Hermetically sealed sensing system

Stainless steel probe

User Manual Instructions: Reference **740SELECT** User Manual Addendum –

Exergen Temperature, 21-22-0334

Exergen TAT 5000S-RS232-QR warranty: Lifetime (warranty excludes Coiled

Interface Cable #01-02-0849)

\*Automatically applied when temperature is within normal body temperature range, otherwise reads surface temperature.

\*\*Approximate number of readings when scanning for 5 seconds and reading the temperature display for 3 seconds before turning off the thermometer.

## How does the The Exergen TemporalScanner Temporal Artery Thermometer work?

The Exergen TemporalScanner Temporal Artery Thermometer (TAT) uses ultra-fast infrared scanning technology with patented arterial heat balance (AHB™) algorithms to quickly, accurately and non-invasively measure the patient's temperature by scanning the temporal artery (TA).

- As the caregiver passes the scanner over the patient's skin, the infrared sensor/AHB algorithm samples (at a rate of 1,000 times per second) the radiant heat emanating from the body, which reaches a maximum (peak) over the temporal artery during the course of the measurement.
- Supported by more than 50 peer-reviewed published studies, covering all ages from premature infants to geriatrics in all clinical care areas.

## How does the temperature from a TemporalScanner relate to core temperature?

- TA temperature is considered a core temperature.
- TAT has been demonstrated as accurate as the temperature measured by a pulmonary artery and esophageal catheter, and as accurate as a rectal temperature on a stable patient.

| Monitors      | Model                   | Description                                   |
|---------------|-------------------------|---|
| 01-02-1006    | <b>740SELECT</b> -XMA00 | NIBP, Masimo SpO <sub>2</sub> , Exergen       |
| 01-02-1007    | <b>740SELECT</b> -XNA00 | NIBP, Nellcor SpO <sub>2</sub> , Exergen      |
| 01-02-1010    | <b>740SELECT</b> -XOA00 | NIBP, Exergen                                 |
| 01-02-1011*** | <b>740SELECT</b> -OMA00 | Masimo SpO <sub>2</sub> , Exergen             |
| 01-02-1012*** | <b>740SELECT</b> -ONA00 | Nellcor SpO <sub>2</sub> , Exergen            |
| 01-02-1022    | <b>740SELECT</b> -XMAE0 | NIBP, Masimo SpO <sub>2</sub> , Exergen, ECG  |
| 01-02-1023    | <b>740SELECT</b> -XNAE0 | NIBP, Nellcor SpO <sub>2</sub> , Exergen, ECG |
| 01-02-1028    | <b>740SELECT</b> -OMAE0 | Masimo SpO <sub>2</sub> , Exergen, ECG        |
| 01-02-1029    | <b>740SELECT</b> -ONAE0 | Nellcor SpO <sub>2</sub> , Exergen, ECG       |

\*\*\*01-02-1011 and 1012 must be ordered with a CO<sub>2</sub> software option.

## Exergen Accessories



### Coiled Interface Cable

Replaceable

TAT-5000S-RS232-QR

Catalog #: 01-02-0849

Reference #: 124204



Sheaths / Latex-free, complete covering for cross-contamination protection / Box of 250

TAT-5000S-RS232-QR

Catalog #: 01-02-0825

Reference #: 129463



### Disposable Probe Caps

Latex-free / Box of 1,000 (20 sleeves of 50 each)

TAT-5000S-RS232-QR

Catalog #: 01-02-0824

Reference #: 134209



Dealer Imprint

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