

# Braun ThermoScan® PRO 4000 Outline Train the Trainer

## A. PRO 4000 parts


1. Thermometer
2. Disposable probe covers
3. Thermometer case
4. 2 AA batteries
5. Base Station (optional feature)
6. Rechargeable batteries (applicable only if using a Base Station)


## B. Lightweight

1. 3.6 ounces without batteries

## C. Batteries

1. Two (2) 1.5 volt AA batteries
2. Battery life lasts approximately 6 months or 1000 measurements.

3. When the battery is low  will appear on the display. The thermometer will still operate correctly.

4. When the battery is too low to take temperature measurements  will appear on the display. Batteries will need to be replaced.

5. To replace batteries:
  - a. open the battery compartment
  - b. remove old batteries
  - c. insert new batteries
  - d. slide battery door back until it snaps in place

## D. Temperature Taking Information

1. The range of normal body temperature varies from person to person and can be influenced by many factors. Those factors which will affect accuracy include:
  - a. poor probe placement
  - b. no probe cover
  - c. a used probe cover
  - d. ambient temperature
  - e. dirty and/or chipped lens
  - f. lying on a pillow
  - g. hearing aids
2. For persons wearing hearing aids or in extreme ambient temperatures, remove the hearing aid or the individual from the situation and wait 20 minutes prior to taking a temperature.

3. Factors which will NOT affect accuracy include:
  - a. cerumen
  - b. otitis media
  - c. tympanostomy tubes

#### E. Operation and Technique

1. To achieve accurate measurements, make sure a *new* clean probe cover is in place before each measurement. Use the following temperature taking technique:
  - a. Remove the thermometer from the case and attach a probe cover. The device turns on.
  - b. Wait for the 'ready' beep and place the probe snugly into the ear canal. Correct probe placement is essential for accurate readings. Aim the probe tip in the direction of the Tympanic membrane. It may help to picture an imaginary line from the ear to the opposite temple.
  - c. Press and release the Start Button. The thermometer will beep once. The green Exac Temp light above the Start Button *flashes*, indicating stable probe placement in the ear.
  - d. A long beep and a solid green Exac Temp light signals the end of a measurement and stable probe placement.
  - e. If the probe is placed incorrectly or was moved while taking a temperature, the device beeps, the green Exac Temp light goes out and POS (Position Error) displays.
  - f. Press I/O button to recall the last temperature.
  - g. To change the temperature scale: with the device Off, press and hold the I/O button for about 5 seconds.
2. The PRO 4000 ear thermometer turns off automatically after 60 seconds of inactivity. It can also be turned off by pressing the I/O button for three seconds. The display will flash OFF and after releasing the button, it will go blank.

#### F. Memory Mode

1. The last temperature taken before the thermometer is turned off is stored in its memory and will be automatically displayed when it is turned on again. The display will show MEM.
2. After taking a new temperature, press the I/O button to recall the last reading.

#### G. Changing the Temperature Scale

1. The PRO 4000 is shipped with the Fahrenheit temperature scale activated. To switch to Celsius:
  - a. make sure the thermometer is turned off
  - b. press and hold the I/O button. After approximately 3 seconds the display will show: °F/SET/°C/SET...
  - c. release the I/O button when °C is shown.
  - d. there will be a short beep to confirm the new setting, and then it will automatically turn off. When turned on again, temperatures will be shown in Celsius.
  - e. repeat the above process to switch it back to °F.

#### H. Care and Cleaning

1. Probe covers
  - a. Are intended for **single use only!**
  - b. Always use PRO 4000 disposable probe covers. The new PRO 4000 probe covers can be used with all models of Braun ear thermometers. Older version probe covers (i.e. those

purchased for the PRO 3000) cannot be used with the PRO 4000. The result will be inaccurate readings.

- c. Damaged, perforated, or soiled covers can lead to inaccurate temperatures.
  - d. The device will not take a temperature without a probe cover in place.
2. Probe Window
- a. To assure accurate measurements, it is important to keep the probe window clean, dry and undamaged.
  - b. Factors which may result in lower temperature measurements include: fingerprints, cerumen, dust or soiling compounds.
  - c. If you place the probe into the ear without a probe cover, the window is likely to be contaminated with ear wax and should be cleaned before using.
  - d. To clean the window, gently wipe its surface with a cotton swab moistened with alcohol. Immediately wipe dry with a clean cotton swab. Allow at least 5 minutes drying time before taking a temperature.
  - e. Do NOT use any chemical other than alcohol to clean the probe window.
3. Thermometer exterior
- a. Use a soft cloth slightly moistened with alcohol to clean the thermometer.
  - b. Do NOT use abrasive cleaners.
  - c. Never submerge the thermometer in water or any other liquid.

## I. Error Messages and Solutions



**No probe cover is attached** - Attach new, clean probe cover.



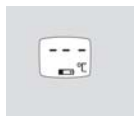
**POS=Position Error The infrared monitor cannot find a temperature equilibrium and allows no measurement** – Clear the display by pushing the “Start” button once. Ensure that the positioning of the probe is correct and remains stable.



**Ambient temperature is not within the allowed operating range 50-104°F (10-40°C) or changing too rapidly** – Allow the thermometer to remain for 30 minutes in a room where the temperature is between 50 and 104°F/10 and 40°C.



**System Error** – Wait 1 minute until the thermometer turns off automatically, then turn on again. **If error persists** reset the thermometer by removing the batteries and putting them back in. **If error still persists** contact Welch Allyn at 1-800-535-6663 (in Canada at 1-800-561-8797).



**Battery is low, but thermometer will still operate correctly** – insert new batteries.



**Battery is too low to take correct temperature measurements** – insert new batteries.

## J. Base Station (if applicable – optional feature)

1. A Base Station is available which provides storage, charging, and an anti-theft function for the thermometer and it can be wall-mounted.
2. To set up the Base Station for use, connect one end of the low voltage adapter to the station, then plug the other end into an electrical outlet. The green connection indicator will light up, showing that the station is ready for use.
3. When the thermometer is not in use it should be stored in the Base Station. When placed into the station, the thermometer will give a short beep and the yellow charging indicator will light up. The yellow light indicates the batteries are charging. When the batteries are fully charged, the light will go out.
4. If the thermometer displays **RET** and the battery symbol, this means the thermometer must be returned to the station for charging.
5. When the Base Station is used, the thermometer must use rechargeable batteries which are supplied with the station.
6. The electronic, individually adjustable anti-theft function requires the user to return the thermometer to the Base Station within a pre-selected time (2, 4, 6, 8, 10, 12, 24, 35, or 64 hours). If this time is exceeded, the thermometer will be locked. Factory default for this function is turned Off.
7. To set the anti-theft function and time period:
  - a. Place the thermometer into the Base Station and wait for a long beep.
  - b. Press and hold the Start Button while you remove the thermometer from the station.
  - c. Release the Start Button. The display will show the anti-theft time setting, e.g. HO8: meaning 8 hours as the time which the thermometer can be used before it has to be returned to the station.
  - d. To change the interval setting, continue to press Start until the desired time is shown, e.g. H: means the function is Off; HO1: means 1 hour setting, etc.
  - e. Place the thermometer back into the station within 30 seconds. A beep sounds, confirming the setting. If the setting is not confirmed, repeat the process.
8. When the anti-theft function is enabled and not measuring a temperature, the thermometer will display the time remaining prior to its shutdown, e.g. H3.5: means the thermometer will shut down in 3.5 hours.
9. If the thermometer displays **RET**, the anti-theft time has elapsed and the thermometer must be returned to the Base Station for unlocking.
10. To clean the Base Station, disconnect from the electrical outlet and wipe with a soft, dry cloth. Do not use abrasive cleaners nor submerge this device in water or any other liquid.