



Clinical Practice Procedures: Assessment/Temperature – Braun ThermoScan® Pro 6000

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Date	February, 2021
Purpose	To ensure a consistent procedural approach to the Braun ThermoScan® Pro 6000.
Scope	Applies to Queensland Ambulance Service (QAS) clinical staff.
Health care setting	Pre-hospital assessment and treatment.
Population	Applies to all ages unless stated otherwise.
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Author	Clinical Quality & Patient Safety Unit, QAS
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Temperature – BRAUN ThermoScan® Pro 6000

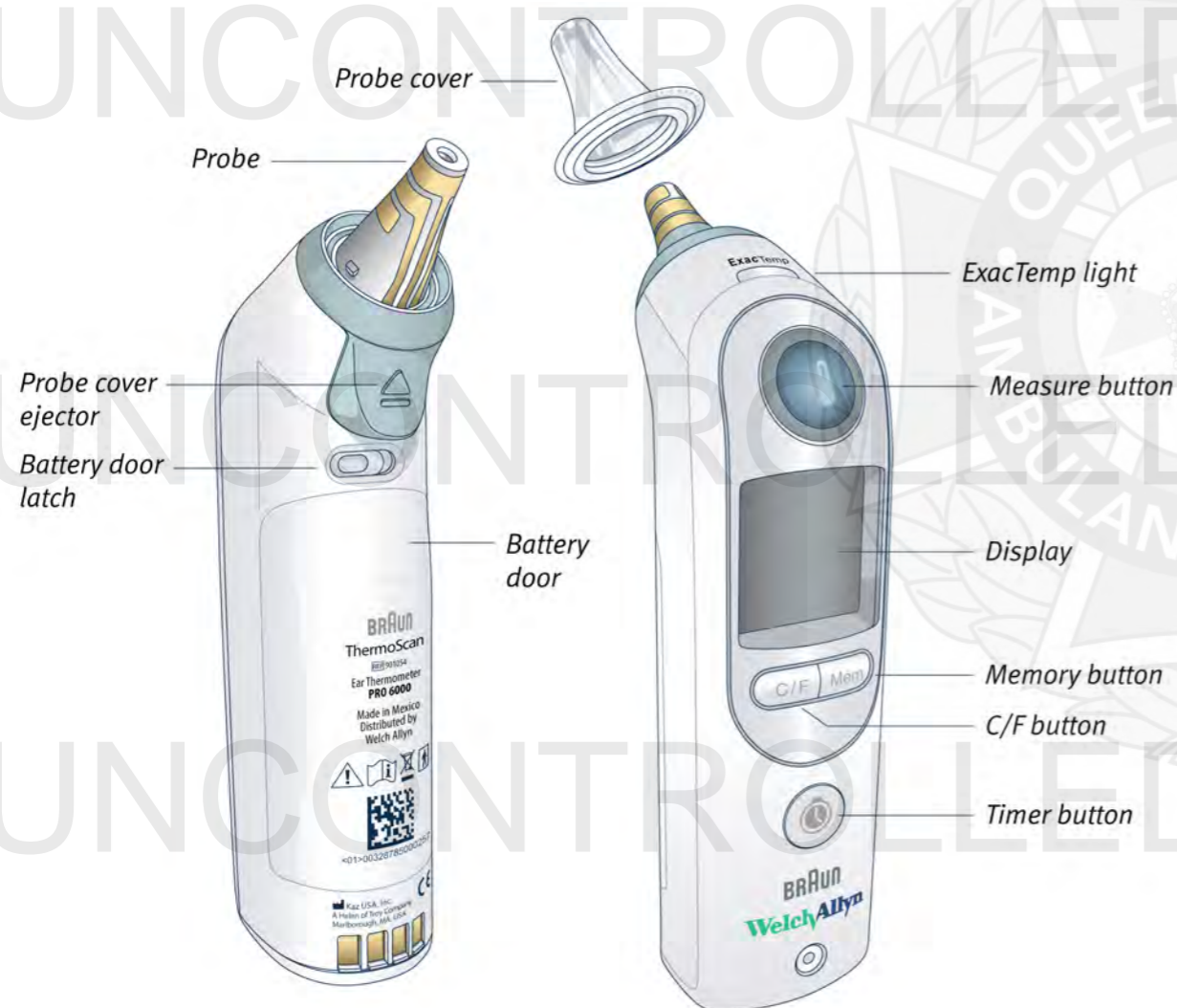
February, 2021

The assessment of a patient's temperature is a valuable measure of systemic illness and will impact directly on clinical management and provisional diagnosis.

Clinical studies have demonstrated ear thermometry is a simple and reliable measure of the body's core temperature.^[1,2] Changes in core body temperature are usually seen earlier at the tympanic membrane when compared to rectal, oral or axillary sites.^[2]

The normal range of tympanic temperature varies from person to person and can be influenced by many factors such as time of day, level of activity, medications and gender.

The BRAUN ThermoScan® PRO 6000 ear thermometer reads the infrared energy emitted by the tympanic membrane and surrounding tissue to determine the patient's temperature. To ensure accurate temperature measurement, the sensor is warmed to a temperature close to that of the human body. When the BRAUN ThermoScan® is placed in the ear, it continuously monitors the infrared energy until temperature equilibrium has been reached and an accurate measurement can be taken.^[3]



Indications



- Intermittent measurement of human body temperature when clinically indicated.

Contraindications



- Blood or drainage in the ear canal
- Acute or chronic inflammatory conditions of the external ear canal
- Perforated tympanic membrane/s
- The ThermoScan® Pro 6000 is not intended for use in pre-term or small (for gestational age) babies.

Complications



- Nil

Procedure – Temperature – BRAUN ThermoScan® Pro 6000

1. Remove the thermometer from the cradle by gripping the thermometer and pivoting up.

2. Attach a new probe cover.

3. Wait for the ready indication, evident by a ring being illuminated around the MEASURE button.

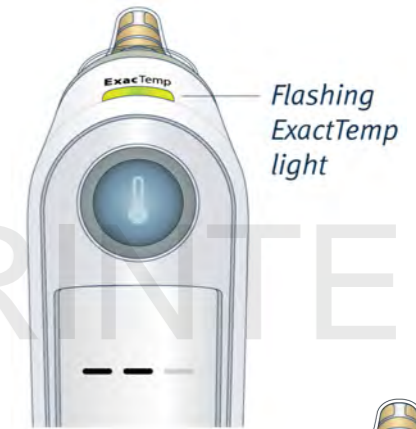
4. Insert the probe snugly into the ear canal – aim it directly towards the patient's opposite temple.



5. Press and release the measure button

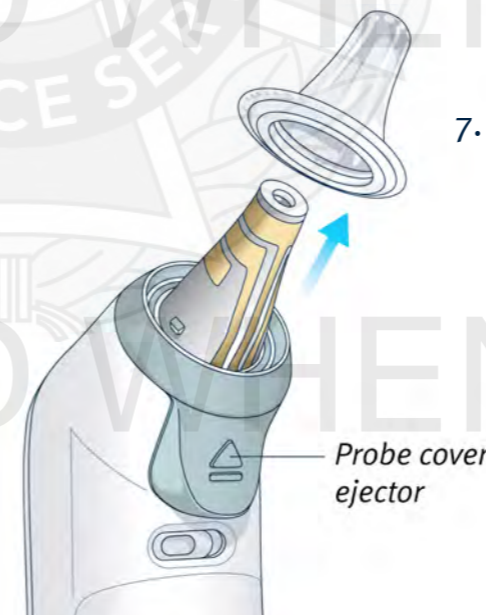
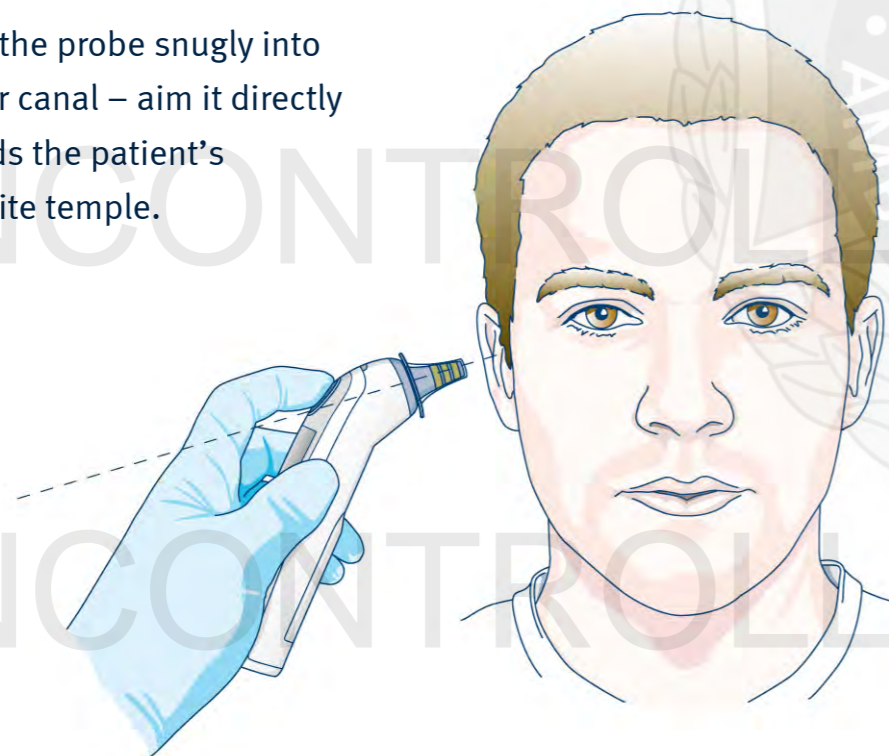
a) If the sensor has been correctly inserted, the thermometer will beep once, running dashes will appear on the display then the green ExactTemp light will flash.

b) If the thermometer is unstable or the patient is moving during the measuring process, the device will beep, the green ExactTemp light will flash and POS (Position Error) will flash on the display. Change the probe cover to reset and return to step 3.



6. A long beep and steady green ExactTemp light will signal the end of the measuring process with the temperature being displayed on the screen.





7. Remove the used probe cover by pressing the Probe Cover Eject Button.



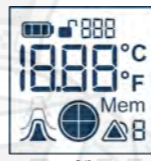





Additional information

- The routine measurement of a patient's temperature is not always necessary.
- Frail elderly individuals might have a low normal body temperature and therefore be at risk of being assessed as non-febrile.
- Body temperature will vary depending on the site. Therefore, measurements taken from different sites at the same time can't be compared.^[3]
- If an ear has been treated with prescription ear drops or other ear medication, the alternate ear should be used for assessment.

Error messages (if an error message persists contact customer care)

MESSAGE	MEANING	TROUBLE SHOOTING
	No probe cover is attached (animates ON).	Attach new, clean probe cover.
	Used probe cover is attached.	Discard probe cover that is on and attach new, clean probe cover if taking another temperature measurement.
	(POS = position error) The infrared monitor cannot find a temperature equilibrium and allow no measurement.	Change the probe cover to reset. Restrict patient movement and ensure that the positioning of the probe is correct and remains stable while taking new temperature.
	Ambient temperature is not within the allowed operating range (50–104°F or 10–40°C) or changing too quickly.	Wait 20 sec. until thermometer turns off automatically, then turn it back on again. Ensure thermometer and patient are in an environment for 30 minutes where temperature is between 50°F and 104°F or 10°C and 40°C.

MESSAGE	MEANING	TROUBLE SHOOTING
	Temperature taken is not within typical human temperature range. HI will be displayed when temperature is higher than 108°F (42.2°C).	Change probe cover to reset. Then, make sure thermometer is properly inserted and take the temperature again.
	LO will be displayed when temperature is lower than 68°F (20°C).	
 or 	System error (All icons display or display is blank). If error persists, If error still persists, If error still persists,	Wait 2 seconds until the thermometer turns off automatically; then turn it back on ... reset the thermometer by removing the batteries and putting them back in. ... batteries are dead. Insert new batteries ... contact local WelchAllyn Service Centre or representative
	Battery is low, but thermometer will still operate correctly.	Replace batteries.
	Battery is too low to allow temperature measurement.	Replace batteries.
	Do you have any further questions?	... contact local WelchAllyn Service Centre or representative