

Information for Clinical Choice

Temporal Artery Thermometer

Support Document

Introduction

Information for Clinical Choice (ICC) has been developed to assist Clinicians in the decision-making process when assessing the suitability of a product by providing a clear illustration and description of the features of a range of similar products supplied through NHS Supply Chain.

The criteria provided, in the form of a Product Matrix and Support Document, is the result of a product review, conducted by DHLs Clinical Procurement and Quality Assurance Team with support from clinical stakeholders from across the NHS as part of our assurance process.

The aim, alongside delivering savings back into NHS frontline services, is to ensure that clinical choice remains at the forefront of any product switching decision.

Thermometers: Temporal Artery Thermometer

Temporal Artery thermometers are Infrared patient thermometers, they are a hand-held, electronically powered instrument designed to estimate the temperature of a site on the skin (e.g., axilla, forehead) by measurement of body infrared emissions at this particular point.

It provides a method to determine temperature patterns or variations on the surface of the skin (e.g., due to differences in perfusion). This device may be used in the home, this is a reusable device.

If you have any questions, would like further information, or have feedback to share, please contact:

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Temporal Artery Thermometers (Part 1)								
Supplier	Almond Nursing Limited	Arbarr Electronics Ltd.	Arbarr Electronics Ltd.	Braun & Co Ltd	Crest Medical Ltd	Denward Manufacturing Ltd	Denward Manufacturing Ltd	Drive Devilbiss Healthcare Ltd
Brand	Alphamed TENP	Alphamed	Alphamed	Braun	SOL-M	Riester	Rossmax	Joytech
MPC	UFR101	AET-R161	UFR118	FT-100B	YT-1	1840-BT	HC-700	DET-306
NPC	FWH363	FWH321	FWH328	FWH277	FWH268	FWH263	FWH175	FWH276
Description	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact bluetooth	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact
Picture								
Route	eDirect	eDirect	eDirect	eDirect	Blue Diamond	eDirect	eDirect	eDirect
UOI	30	Each	Each	Each	Each	Each	Each	Each
How long does it take to get a reading?	<1 second	1 second	1 second	1 second	1 second	1 second	1 second	3 seconds
How far away from the person do you have to be for optimum reading accuracy?	1-10 cm	1.5-5 cm	1-10 cm	1-3 cm	0-5 cm	Approx. 3-7 cm	<10 cm	2-3 cm
Where is the optimum forehead site to get a reading- (side, middle etc)	Forehead centre	Forehead centre	Forehead centre	Forehead centre	Forehead centre	Forehead centre	Temple	Forehead centre
What is the expected battery life	Up-to 300 readings	1000 readings	5000 readings	4000 readings	3000 readings	3000 readings	2000 readings	Approx 1 year
What batteries does it take or is it charged in another manner?	1x3.7v18650 lithium battery	2xAAA DC3V	18650 lithium rechargeable battery TYPE C	Lithium battery 2032	Power source DC 3V (2 AAA alkaline batteries)	2 X AA	1xCR2032	2x AAA alkaline batteries
Is there a case/stand available?	✗	✗	✓	✓	✗	✗	✗	✗
What is the optimal accuracy +- 3% for instance	± 0.2°C	±0.1°C	±0.2°C	+ 0.3c	±0,2°C	+/- 0.4°C	+/-0.3°C	±0.2°C
What is the ambient temperature optimal reading range?	-20°C - +50°C	21°C-49°C	10°C-40°C	10°C-40°C	-	10°Cto 40°C	22°C- 40°C	25°C-55°C
Is ear thermometer function included?	✗	✗	✗	✗	✗	✗	✗	✗
Is oral thermometer function included?	✗	✗	✗	✗	✗	✗	✗	✗
Digital (contact) included?	✓	✗	✗	✗	✗	✗	✗	✗
Infrared (non-contact) included?	✓	✓	✓	✓	✓	✓	✓	✓
Is auto turn off included and in what time does device turn off?	Auto switch-off after 60 seconds	Auto switch-off after 60 seconds	✗	Auto switch-off after 60 seconds	Auto switch-off after 30 seconds	Auto switch-off (time not stated)	Auto switch-off (time not stated)	Auto switch-off after 60 seconds
Measurement Range	32°C-43°C	10°C-40°C	32°C-43°C	32°C-42.9°C	32°C-43°C	22°C-44°C	22°C-40°C	34°C-43°C
Memory	20 readings	32 readings	20 readings	10 readings	✗	30 readings	9 readings	10 readings
Service life	5 years	5 years	5 years	3 years	5 years	3 years	5 years	1 year

Temporal Artery Thermometers (Part 2)

Supplier	G H Zeal Limited	Henry Schein Uk Holdings Ltd	Henry Schein Uk Holdings Ltd	Kinetik Medical Devices Ltd	Marsden Weighing Machine Co Ltd	Masimo Uk (E Direct)	Medline Industries Ltd	Merlin Healthcare Ltd
Brand	Visiofocus Tecnimed	Microlife	Joy Tech	Kinetik Wellbeing	Marsden	Masimo	Caretalk	Joytech
MPC	M8008/3	NC150	DET-306	PG-IRT1603	T-100	4301	TH5001N	DET-306
NPC	FWH221	FWH311	FWH381	FWH274	FWH291	FWH343	FWH283	FWH289
Description	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact
Picture								
Route	Blue Diamond	eDirect	eDirect	Blue Diamond	eDirect	eDirect	Blue Diamond	Blue Diamond
UOI	Each	Each	Each	Each	Each	Each	Each	Each
How long does it take to get a reading?	0.5 seconds	-	-	1 second	1 second	1 second	1 second	-
How far away from the person do you have to be for optimum reading accuracy?	6 cm	-	-	0-5 cm	1-3 cm	1.2-5 cm	2-5 cm	2-3 cm
Where is the optimum forehead site to get a reading- (side, middle etc)	Forehead centre	-	-	Forehead centre	Forehead centre	Forehead centre	Forehead centre	-
What is the expected battery life	Up to 3 years	-	-	1000 readings	50 hours	10,000 readings	6 months	-
What batteries does it take or is it charged in another manner?	4 x type AAA/LR03 (preferably alkaline) Included	-	-	2x1.5v AAA	2xAAA batteries	2xAA 3v batteries	DC 9V (1x6F22)	2xAAA batteries
Is there a case/stand available?	✓	-	-	✗	✗	✗	✗	-
What is the optimal accuracy +- 3% for instance	+/- 0.3°C	-	-	± 0.2°C	±0.2°C	± 0.3°C	±0.2°C	-
What is the ambient temperature optimal reading range?	16°C-40°C	-	-	0°C-93.2°C	0.0°C-40°C	10°C-40°C	5.0°C-59.9°C	-
Is ear thermometer function included?	✗	-	-	✓	✗	✗	✓	-
Is oral thermometer function included?	✗	-	-	✗	✗	✗	✗	-
Digital (contact) included?	✗	-	-	✗	✗	✗	✗	-
Infrared (non-contact) included?	✓	-	-	✓	✓	✓	✓	-
Is auto turn off included and in what time does device turn off?	Auto switch-off after 20 seconds	-	-	Auto switch-off after 30 seconds	Auto switch-off after 60 seconds	Auto switch-off after 30 seconds	Auto switch-off after 10 seconds	-
Measurement Range	34°C-42.5°C	-	-	34°C-43°C	32°C-43°C	10°C-40°C	32°C-42.9°C	34°C-43°C
Memory	9 readings	-	-	9 readings	20 readings	30 readings	30 readings	-
Service life	3-5 years	-	-	5 years	1 year	5 years	2 years	-

Temporal Artery Thermometers (Part 3)							
Supplier	Microlife Health Management Ltd- Watch Bp	Oscartech Uk	Praxis Medical Ltd	Proact Medical Ltd	Proact Medical Ltd	Rudolf Riester Gmbh	Rudolf Riester Gmbh
Brand	MICROLIFE	Alphamed	PRAXIS	Rycom	Jumper	Riester	Riester
MPC	T951503-3	UFR105	IR988	JXB-182	JPD-FR203	1840	1840-BT
NPC	FWH380	FWH342	FWH330	FWH160	FWH265	FWH303	FWH304
Description	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact
Picture							
Route	eDirect	eDirect	eDirect	Stocked	Blue Diamond	eDirect	eDirect
UOI	32	5	Each	Each	Each	Each	Each
How long does it take to get a reading?	3 seconds	1 second	0.5 seconds	1 second	1 second	1-2 seconds	1-2 seconds
How far away from the person do you have to be for optimum reading accuracy?	5 cm	1-10 cm	3-5 cm	3-5 cm	1-5 cm	3-7 cm	3-7 cm
Where is the optimum forehead site to get a reading- (side, middle etc)	Forehead centre	Forehead centre	Forehead centre	Forehead centre	Forehead centre	Forehead centre	Forehead centre
What is the expected battery life	2000 readings	1000 readings	-	1000 readings	-	3000 readings	3000 readings
What batteries does it take or is it charged in another manner?	2 x 1.5v AAA alkaline	2xAAA batteries	2x 1.5v AAA batteries	2xAA batteries	2xAAA batteries	2x 1.5 v AA batteries	2x 1.5v AA batteries
Is there a case/stand available?	✗	✗	✗	✓	✓	✗	✗
What is the optimal accuracy +- 3% for instance	±0.2 °C	±0.2°C	±0.2°C	+/- 0.2°C	+/- 0.2°C	± 0.2°C	± 0.2°C
What is the ambient temperature optimal reading range?	16°C-40.0°C	10°C-40°C	10°C-40°C	10°C-40°C	10°C-40°C	10°C-40°C	11°C-40°C
Is ear thermometer function included?	✗	✗	✗	✗	✗	✗	✗
Is oral thermometer function included?	✗	✗	✗	✗	✗	✗	✗
Digital (contact) included?	✗	✗	✗	✗	✗	✗	✗
Infrared (non-contact) included?	✓	✓	✓	✓	✓	✓	✓
Is auto turn off included and in what time does device turn off?	Auto switch-off after 60 seconds	Auto switch-off after 60 seconds	Auto switch-off after 10 seconds	Auto power off after 30 seconds	Auto switch-off after 10 seconds	Auto switch-off after 30 seconds	Auto switch-off after 30 seconds
Measurement Range	34°C-42.2°C	36°C-39°C	32.0°C-42.9°C	32°C-43°C	35°C-42.2°C	22°C-44°C	22°C-44°C
Memory	30 readings	20 readings	35 readings	32 readings	20 readings	30 readings	32 readings
Service life	5 years	5 years	1 year	Up to 5 years	5 years	1 year	1 year

Temporal Artery Thermometers (Part 4)

Supplier	Syringa Wholesale Distributor	Timesco Healthcare Ltd	Timesco Healthcare Ltd	Trimedika Ltd	Williams Medical Supplies Ltd	Williams Medical Supplies Ltd	Worldlink Resources Limited
Brand	Rossmax	Timesco	Timesco	TriTemp	Radiant Innovation	Berrcom	Finicare
MPC	HC700	D60.300	D60.315	TR1	W2731	W268700	FC-IR202
NPC	FWH353	FWH122	FWH384	FWH238	FWH377	FWH256	FWH367
Description	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact	Thermometer temporal artery device non-contact
Picture							
Route	Blue Diamond	Blue Diamond	Blue Diamond	Blue Diamond	Blue Diamond	Stocked	Blue Diamond
UOI	Each	Each	Each	Each	Each	Each	Each
How long does it take to get a reading?	1 second	2 seconds	1 second	1 second	0.6 - 8 seconds	1 second	1 second
How far away from the person do you have to be for optimum reading accuracy?	<10 cm	2-5 cm	2-5 cm	3-5 cm	1 cm	3-5 cm	0-3 cm
Where is the optimum forehead site to get a reading- (side, middle etc)	Temple	Temple	Forehead centre	Forehead centre	Side - temple area	Forehead centre	Forehead centre
What is the expected battery life	3000 readings	6,000 readings	6,000 readings	20,000 readings	-	-	5 Years
What batteries does it take or is it charged in another manner?	2 x AAA batteries	2xAAA batteries	2xAAA batteries	2xAAA DC	1 x CR2032	2 x AA 800mAh	2xAAA
Is there a case/stand available?	✗	✗	✗	✓	✗	✗	✗
What is the optimal accuracy +/- 3% for instance	+/- 0.3 C	+/- 0.2c	+/- 0.2c	+/-0.2 C	± 0.3°C	± 0.3°C	±0.2°C
What is the ambient temperature optimal reading range?	16°C-40°C	10°C to 80°C	10°C-70°C	10°C-40°C	10°C-40°C	10°C-40°C	10°C-40°C
Is ear thermometer function included?	✗	✗	✗	✗	✗	✗	✗
Is oral thermometer function included?	✗	✗	✗	✗	✗	✗	✗
Digital (contact) included?	✗	✗	✗	✗	✗	✗	✗
Infrared (non-contact) included?	✓	✓	✓	✓	✓	✓	✓
Is auto turn off included and in what time does device turn off?	Auto switch-off after 60 seconds	Auto switch-off after 60 seconds	Auto switch-off after 60 seconds	Auto switch-off after 30 seconds	Auto switch-off after 60 seconds	Auto power off after 30 seconds	Auto switch-off after 10 seconds
Measurement Range	34°C-42.2°C	22°C-42.5°C	32°C-43°C	32°C-42.9°C	34°C-42.2°C	25°C-42.9°C.	32°C-42.9°C
Memory	9 readings	32 readings	32 readings	30 readings	25 readings	32 readings	35 readings
Service life	5 years	1 year	1 year	40,000 readings	1 year	1 year	5 years

