

Information for Clinical Choice Matrix and Support Document

Pulse Oximeters

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.

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.

Patient Assessment Devices (PAD): Pulse Oximeters Finger tip Device

An electrically-powered photoelectric device designed for the transcutaneous measurement and display of haemoglobin oxygen saturation (SpO₂). The signals are produced by light-emitting diodes (LEDs) and received by a photodetector. The device displays the SpO₂ values and may also measure/display pulse rate. It is typically applied to the fingertip or around the wrist, may be single-component (with built-in probe) or multi-component (includes external probe), and may in addition wirelessly transmit measurements to a receiving location (e.g., central station, bedside monitor); it is intended to be operated by laypersons and healthcare providers.








Pulse Oximeters Finger tip Device (Part 1)							
Supplier	Albert Waeschle Ltd	Albert Waeschle Ltd	Henry Schein Medical	Henry Schein Medical	Masimo Uk	Praxis Medical Ltd	Praxis Medical Ltd
Brand	Contec	Contec	Microlife	Henry Schein	Masimo mightysat	Praxis Medical	Praxis Medical
MPC	G-50d	G-50a	ACC037	ACC441	9707	MD300C13-CC60	MD300C13-NC60
NPC	FBC465	FBC464	FBC3755	FBC3753	FBC1240	FBC3310	FBC3316
Description	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device
Picture							
Route	Blue Diamond	Blue Diamond	eDirect	eDirect	Blue Diamond	eDirect	eDirect
UOI	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches
Batteries Supplied	✓	✓	✓	✓	✓	✓	✓
Battery powered indicator	✓	✓	✓	✓	✓	✓	✓
Pulse rate							
Measurement range	30 - 250 bpm	30 - 250 bpm	30 - 235 bpm	30 - 250 bpm	25 - 240 bpm	30 - 250 bpm	30 - 250 bpm
Accuracy	+ / - 2%	+ / - 2%	30-99 bpm, ±2bpm; 100-235bpm, ±2%	30-99 bpm±2bpm 100-250bpm±2%	3 bpm	30-99 bpm±2bpm 100-250bpm±2%	30-99 bpm±2bpm 100-250bpm±2%
Saturation rate (SPO2)							
Measurement range	0 - 100%	0 - 100%	70 - 100%	70 - 100%	0 - 100%	70 - 100%	70 - 100%
Accuracy	+ / - 2%	+ / - 2%	70%-100%: ±2%;	70 - 100%: ±2 %	2%	+ / - 2%	+ / - 2%
Ability to clean	✓	✓	✓	✓	✓	✓	✓
Paediatric Use	✗	✗	✓	✓	>30kg	✓	✓
Warranty	12 months	12 months	24 months	24 months	12 months	60 months	60 months
Automatic turn off	✓	✓	✓	✓	✓	✓	✓
Case supplied	✓	✓	✓	✓	✓	✓	✗
Strap provided	✓	✓	✓	✓	✓	✓	✓
Weight	50g (with batteries)	50g (with batteries)	33g (without battery)	56g (with batteries)	73g (with batteries)	50g (with batteries)	50g (with batteries)

Pulse Oximeters Finger tip Device (Part 2)							
Supplier	Praxis Medical Ltd	Praxis Medical Ltd	Praxis Medical Ltd	Praxis Medical Ltd	Praxis Medical Ltd	Praxis Medical Ltd	Praxis Medical Ltd
Brand	Praxis Medical	Praxis Medical	Praxis Medical	Praxis Medical	Praxis Medical	Praxis Medical	Praxis Medical
MPC	MD300C13-CC48	MD300C13-NC48	MD300C13-CC36	MD300C13-CC24	MD300C13-NC36	MD300C13-NC24	MD300C13-CC18
NPC	FBC3309	FBC3315	FBC3308	FBC3307	FBC3314	FBC3313	FBC3306
Description	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device
Picture							
Route	eDirect	eDirect	eDirect	eDirect	eDirect	eDirect	eDirect
UOI	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches
Batteries Supplied	✓	✓	✓	✓	✓	✓	✓
Battery powered indicator	✓	✓	✓	✓	✓	✓	✓
Pulse rate							
Measurement range	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm
Accuracy	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%
Saturation rate (SPO2)							
Measurement range	70 - 100%	70 - 100%	70 - 100%	70 - 100%	70 - 100%	70 - 100%	70 - 100%
Accuracy	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%
Ability to clean	✓	✓	✓	✓	✓	✓	✓
Paediatric Use	✓	✓	✓	✓	✓	✓	✓
Warranty	48 months	48 months	36 months	24 months	36 months	24 months	18 months
Automatic turn off	✓	✓	✓	✓	✓	✓	✓
Case supplied	✗	✓	✗	✓	✗	✗	✓
Strap provided	✓	✓	✓	✓	✓	✓	✓
Weight	50g (with batteries)	50g (with batteries)	50g (with batteries)	50g (with batteries)	50g (with batteries)	50g (with batteries)	50g (with batteries)

Pulse Oximeters Finger tip Device (Part 3)							
Supplier	Praxis Medical Ltd	Praxis Medical Ltd	Praxis Medical Ltd	Proact Medical Ltd	Proact Medical Ltd	Proact Medical Ltd	Proact Medical Ltd
Brand	Praxis Medical	Praxis Medical	Praxis Medical	Nonin	Nonin	Nonin Onyx Vantage	Nonin Onyx Vantage
MPC	MD300C13-NC18	MD300C13-CC12	MD300C13-NC12	3240	9550	9590-BL	9590-BK
NPC	FBC3312	FBC3305	FBC3311	FBC3761	FBC135	FBC959	FBC134
Description	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device (available in Blue / Red)	Pulse Oximeter Finger Device
Picture							
Route	eDirect	eDirect	eDirect	Stocked	Stocked	Blue Diamond	Stocked
UOI	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches
Batteries Supplied	✓	✓	✓	✓	✓	✓	✓
Battery powered indicator	✓	✓	✓	✓	✓	✓	✓
Pulse rate							
Measurement range	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm	20 - 250 bpm	20 - 250 bpm	20 - 250 bpm	20 - 250 bpm
Accuracy	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	30-99bpm±2bpm 100-250bpm±2%	+ / -3 bpm	+ / -3 bpm	+ / -3 bpm	+ / -3 bpm
Saturation rate (SPO2)							
Measurement range	70 - 100%	70 - 100%	70 - 100%	70 - 100%	70 - 100%	70 - 100%	70 - 100%
Accuracy	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%	+ / - 2%
Ability to clean	✓	✓	✓	✓	✓	✓	✓
Paediatric Use	✓	✓	✓	✓	✓	✓	✓
Warranty	18 months	12 months	12 months	24 months	48 months	48 months	48 months
Automatic turn off	✓	✓	✓	✓	✓	✓	✓
Case supplied	✗	✗	✗	✓	✓	✓	✓
Strap provided	✓	✓	✓	✓	✓	✓	✓
Weight	50g (with batteries)	50g (with batteries)	50g (with batteries)	63g (with batteries)	54g (with batteries)	53g (with batteries)	53g (with batteries)

Pulse Oximeters Finger tip Device (Part 4)							
Supplier	Proact Medical Ltd	Timesco Healthcare Ltd	Timesco Healthcare Ltd	Timesco Healthcare Ltd	Timesco Healthcare Ltd	Timesco Healthcare Ltd	Timesco Healthcare Ltd
Brand	Creative	Timesco ChoiceMed	Timesco CB31 Strike Plus	Timesco ChoiceMed C52	Timesco ChoiceMed C3	Timesco ChoiceMed	Timesco ChoiceMed
MPC	PC-60B1BK	TDM-PO-CI218	TDM-PO-CB31	TDM-PO-C52	TDM-PO-CF3	TDM-PO-C29	TDM-PO-C19
NPC	FBC1381	FBC1667	FBC306	FBC269	FBC268	FBC385	FBC323
Description	Pulse Oximeter Finger Device (available in Blue / Yellow / Pink)	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device
Picture							
Route	Blue Diamond	Blue Diamond	Blue Diamond	Blue Diamond	Stocked	Blue Diamond	Stocked
UOI	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches
Batteries Supplied	✓	✓	✓	✓	✓	✓	✓
Battery powered indicator	✓	✓	✓	✓	✓	✓	✓
Pulse rate							
Measurement range	30 - 240 bpm	30 - 250 bpm	30 - 235 bpm	30 - 235 bpm	30 - 235 bpm	31 - 235 bpm	30 - 250 bpm
Accuracy	+/- 2bpm	+/- 2bpm ('+/- 2% above 100bpm)	+/- 2bpm ('+/- 2% above 100bpm)	+/- 2bpm ('+/- 2% above 100bpm)	+/- 2bpm ('+/- 2% above 100bpm)	+/- 2bpm ('+/- 2% above 100bpm)	+/- 2%
Saturation rate (SPO2)							
Measurement range	35 - 99%	70 - 100%	70 - 99%	70 - 100%	70 - 99%	70 - 100%	70 - 100%
Accuracy	+/- 2% (3% below 70%)	+/- 2%	+/- 3 digits	+/- 2% ('+/- 3 digits below 80%)	+/- 3 digits	+/- 2% ('+/- 3 digits below 80%)	+/- 2%
Ability to clean	✓	✓	✓	✓	✓	✓	✓
Paediatric Use	✓	✓	✓	✓	✓	✓	✓
Warranty	36 months	36 months	36 months	36 months	36 months	36 months	24 months
Automatic turn off	✓	✓	✓	✓	✓	✓	✓
Case supplied	✓	✓	✗	✓	✓	✓	✓
Strap provided	✓	✓	✓	✓	✓	✓	✓
Weight	50g (with batteries)	65g (with batteries)	50g (without batteries)	35g (with batteries)	50g (with batteries)	50g (with batteries)	50g (with batteries)

Pulse Oximeters Finger tip Device (Part 5)						
Supplier	Timesco Healthcare Ltd	Timesco Healthcare Ltd	Walters Medical Limited	Walters Medical Limited	Walters Medical Limited	White Medical
Brand	Timesco	Timesco ChoiceMed	Medlinket	Riester	Medlinket	Edan
MPC	TDM-PO-C19A	TDM-PO-CN130	AM806	1905	AM802	H10
NPC	FBC3776	FBC1668	FBC3816	FBC3858	FBC1592	FBC1682
Description	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device	Pulse Oximeter Finger Device
Picture						
Route	Stocked	Blue Diamond	Blue Diamond	Blue Diamond	Blue Diamond	Blue Diamond
UOI	Eaches	Eaches	Eaches	Eaches	Eaches	Eaches
Batteries Supplied	✓	✓	✓	✓	✓	✓
Battery powered indicator	✓	✓	✓	✓	✓	✓
Pulse rate						
Measurement range	30 - 250 bpm	30 - 250 bpm	30 - 250 bpm	30 - 235 bpm	30 - 250 bpm	30 - 240 bpm
Accuracy	+/- 2%	+/- 2%	30 - 100: +/-2bpm	30 - 100: +/-2bpm	30 - 100: +/-2bpm	+/- 2%
Saturation rate (SPO2)						
Measurement range	70 - 100%	70 - 100%	70 - 99%	70 - 100%	70 - 99%	35 - 99%
Accuracy	+/- 2%	+/- 2%	70 - 99%: +/- 3%	70 - 99%: +/- 3%	70 - 99%: +/- 3%	+ / - 2%
Ability to clean	✓	✓	✓	✓	✓	✓
Paediatric Use	✓	✓	✓	✓	✓	Dependent on weight
Warranty	24 months	12 months	12 months	30 months	12 months	12 months
Automatic turn off	✓	✓	✓	✓	✓	✓
Case supplied	✗	✗	✓	✓	✓	✗
Strap provided	✗	✓	✓	✓	✓	✓
Weight	50g (with batteries)	50g (with batteries)	31.5g (with batteries)	48g (with batteries)	30g (with batteries)	57g

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

Dan Lewin – Specialist in Clinical Procurement and Quality Assurance, Ward Based Consumables
Dan.Lewin@supplychain.nhs.uk

Ellie Addison – Specialist in Clinical Procurement and Quality Assurance, Ward Based Consumables
Ellie.Addison@supplychain.nhs.uk

Maya Guerrero – Specialist in Clinical Procurement and Quality Assurance, Ward Based Consumables
Maya.Guerrero@supplychain.nhs.uk

Cheryl Wilson – Buyer, Ward based Consumables
Cheryl.Wilson2@supplychain.nhs.uk

