



# SunTech CT40

## Technical Specifications



### Base Unit Contents

- SunTech CT40 Device with BP
- AC Power Cord
- 10' BP Patient Hose
- Battery
- Quick Start Guide
- Adult Plus OPD Cuff
- Large Adult Plus OPD Cuff

### Modules

99-0134-00	SunTech CT40 Base unit with BP (no power cord)
99-0134-01	SunTech CT40 Base unit with BP with AC Power Cord (Americas)
99-0134-02	SunTech CT40 Base unit with BP with AC Power Cord (Europe)
99-0134-03	SunTech CT40 Base unit with BP with AC Power Cord (UK)
98-0411-00	Chipox Nellcor® Compatible SpO <sub>2</sub> Module
98-0411-01	Masimo SET® SpO <sub>2</sub> Module (preferred)
98-0411-02	Covidien FILAC® 3000 Thermometry Module
98-0411-03	Touchless Thermometry Module (Not available in North America)

### Systems Reference Configuration

99-0134-0X	BP Only
99-0134-0X + 98-0411-01	BP, Masimo® SpO <sub>2</sub>
99-0134-0X + 98-0411-00	BP, Nellcor® comp. SpO <sub>2</sub>
99-0134-0X + 98-0411-02	BP, FILAC® Temp
99-0134-0X + 98-0411-03	BP, Touchless Temp
99-0134-0X + 98-0411-02 + 98-0411-01	BP, FILAC® Temp, Masimo® SpO <sub>2</sub>
98-0134-0X + 98-0411-02 + 98-0411-00	BP, FILAC® Temp, Nellcor® comp. SpO <sub>2</sub>
99-0134-0X + 98-0411-03 + 98-0411-01	BP, Touchless Temp, Masimo® SpO <sub>2</sub>
99-0134-0X + 98-0411-03 + 98-0411-00	BP, Touchless Temp, Nellcor® comp. SpO <sub>2</sub>

### SpO<sub>2</sub>

#### Masimo SET® SpO<sub>2</sub> Module Accessories

Masimo® M-LNCS DCI Adult SpO<sub>2</sub> Reusable Sensor, 2501\*

Masimo® M-LNC 10'/3.0m Patient Cable, 2525\*

\*Contact Masimo® for replacement orders

#### ChipOx Nellcor Compatible SpO<sub>2</sub> Module

52-0010-00 Reusable Adult SpO<sub>2</sub> Finger Sensor, ChipOx

### Temperature

#### Covidien FILAC 3000 Temperature Module Accessories

52-0009-00	F3000 Oral/Axillary Temp Probe, 9'
45-0006-00	F3000 Oral/Axillary Isolation Chamber, Blue
52-0009-01	F3000 Rectal Temp Probe, 9'
45-0006-01	F3000 Rectal Isolation Chamber, Red
98-0131-00	F3000 Disposable Temp Probe Covers (Qty 500 - 25 boxes of 20)
98-0130-00	F3000 Disposable Temp Probe Covers (Qty 5000)
52-0011-00	F3000 Calibration Plug

#### Touchless IR Temperature Module Accessories

98-0412-00 Replacement IR Thermometer with cable

## Blood Pressure Cuffs

### Blood Pressure Cuffs (Each)

98-0599-41	OPD Child (12-19cm) BP Cuff, Bayonet
98-0599-43	OPD Small Adult (17-25cm) BP Cuff, Bayonet
98-0599-45	OPD Adult (23-33cm) BP Cuff, Bayonet
98-0599-4A	OPD Adult Plus (28-40cm) BP Cuff, Bayonet
98-0599-47	OPD Large Adult (31-40cm) BP Cuff, Bayonet
98-0599-4C	OPD Large Adult Plus (40-55cm) BP Cuff, Bayonet

### Blood Pressure Cuffs (Box of 5)

98-0600-41	OPD Child (12-19cm) BP Cuff, Bayonet
98-0600-43	OPD Small Adult (17-25cm) BP Cuff, Bayonet
98-0600-45	OPD Adult (23-33cm) BP Cuff, Bayonet
98-0600-4A	OPD Adult Plus (28-40cm) BP Cuff, Bayonet
98-0600-47	OPD Large Adult (31-40cm) BP Cuff, Bayonet
98-0600-4C	OPD Large Adult Plus (40-55cm) BP Cuff, Bayonet

## Accessories

46-0040-00	Deluxe Mobile Stand
46-0040-01	Mobile Stand Printer Mount
98-0256-00	SunTech CT40 Thermal Printer (w/USB, paper)
98-0257-00	SunTech CT40 Barcode Scanner (w/USB) with Scanner Mount
45-0005-00	SunTech CT40/50 WiFi Dual Band USB Dongle
91-0028-16	10'/3.0m Patient BP Hose, Bayonet to Bayonet
91-0003-00	AC Power Cord (Americas)
91-0003-05	AC Power Cord (Europe)
91-0003-06	AC Power Cord (UK)
91-0100-02	Mini-USB to USB Cable
71-0543-00	Thermal Printer Paper
98-0900-00	SunTech CT40 Rechargeable Lithium Ion Battery

## SpO<sub>2</sub> Specifications

Function	Masimo	ChipOx
	M-LNCS DCI Reusable Sensor	
Saturation Normal (no motion)	70-100%Arms ± 2%	70-100%Arms ± 2%
Saturation Motion	70-100%Arms ± 3%	N/A
Low Perfusion	SpO <sub>2</sub> +/-2%	N/A
Pulse Heart rate	± 3% BPM	20-300 BPM: ±3 BPM
Pulse Heart rate w/motion	± 3% BPM	20-300 BPM: ±3 BPM

## Temperature Specifications

Function	Touchless IR Thermometer	Covidien Electronic Thermometer
	Temperature Accuracy	<b>Body Temperature</b> (36-39°C) ± 0.2°C
<b>Body Temperature</b> (34.0-35.9, 39.1-42.5°C) ± 0.3°C		<b>Std. Mode</b> (Aux/Rectal): ± 0.1°C
Response Time	<b>Wide Temperature</b> (15-60°C) ± 2°C	<b>Direct Mode</b> ± 0.1°C
	< 2 seconds	4 sec.(quick mode); 10-15 sec. (Axillary/Rectal); 60 sec.(direct mode)
Resolution	0.1°C	0.1°C



## Blood Pressure Specifications

<b>Range:</b>	Pressure: Diastolic: 20-200 mmHg (adult), 20-160 mmHg (pediatric). Systolic: 40-260 mmHg (adult), 40-230 mmHg (pediatric) Heart Rate: 30-220 BPM (beats per minute)
<b>Accuracy (BP):</b>	Meets or exceeds ANSI/AAMI/ISO 81060-2:2013 standard for non-invasive accuracy ( $\pm 5$ mmHg mean error with 8mmHg standard deviation).

## General Specifications

<b>Conditions for Use:</b>	Operating: 10°C (50°F) to 40°C (104°F) 15 – 90% RH non-condensing - 700 kPa - 1060 kPa. Operating the monitor in an environment at maximum temperature can produce temperatures exceeding 41°C (41.6°C highest recorded) on a patient-applied part. It is up to the operator to determine if this temperature is too high based upon the condition of the patient and, if so, to ensure the ambient temperature of the environment is 38°C or below.
<b>Storage:</b>	-20°C (-4°F) to 55°C (149°F) 15 – 90% RH non-condensing - 500 kPa - 1060 kPa. Performance can be affected if used or stored outside the specified temperature, humidity, or altitude listed in the ranges above.
<b>Power:</b>	Internal power supply. Input: 100-240 VAC @ 1.5A max, 50-60 Hz. Output +9VDC @ 5A IEC 320 type input connector.
<b>Battery:</b>	Type: 7.2v, 6600mAh Internal Lithium-Ion battery Run Time (full charge): ~20 hrs* / 200 BP cycles Charge Time: ~6 hrs @ 23deg Celsius +/- 2deg *Unit with BP, Temp, SpO2, Wi-Fi, barcode scanner
<b>Calibration:</b>	The accuracy of cuff -pressure transducers/indicators should be verified bi-annually.
<b>Safety Systems:</b>	Independent hardware over-pressure circuit and redundant software overpressure algorithm to limit cuff pressure to less than 300 mmHg (+20/-10mmHg). Independent hardware timing circuit and redundant software timer algorithm to limit the duration of a blood pressure cycle to less than 180 seconds.
<b>Dimensions:</b>	Size (without thermometer option): 8" H x 6.75" W x 5.2" D or 215mm H x 190mm W x 140mm D
<b>Standards:</b>	ANSI/AAMI ES60601-1:2005/(R)2012 and A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012, EN 60601-1:2006/A1:2013, IEC 60601-1-2: 2007 EMC, IEC 80601-2-30: 2013, ISO 80601-2-61: 2011, ISO 15223-1:2012, ISO 10993-1, 2009, ISO 10993-5, 2009, EN ISO 10993-10, 2010, ISO 81060-2:2013, EN 50419: 2006, EN ISO 14971:2009, CSA C22.2 No. 60601-1, EN ISO 81060-1: 2012, IEC 60601-1-6: 2013
<b>Classifications:</b>	Equipment Classification: Class IIa per MDD, Class I (Electrical Shock), Continuous mode of operation, CE
<b>Ingress of liquid:</b>	Ingress Protection: IPX1: This device is protected against harmful effects of dripping water per IEC 60529.

## Limited Warranty

SunTech Medical, Inc. provides to the original purchaser the following limited warranty from date of invoice:

Main unit, SpO <sub>2</sub> modules, temp modules:	3 years
OPD Blood Pressure Cuffs:	2 years
Accessories (SpO <sub>2</sub> sensors, temp probes, BP hose, etc):	90 days

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