



SunTech[®] CT40[™]

BP + VITALS



Modular Vital Signs
with BP, Temperature and SpO₂

SunTech CT40

Utilizing SunTech's market-leading, clinical-grade Advantage™ BP technology, the SunTech CT40 is the only vital signs device of its kind. Designed to be easily incorporated into any clinical workflow, the modular design of this device allows you to add or change pulse oximetry and thermometry modules while in the field, based on the needs of your patients.

Reliability: Manual SphygMode™ for real-time verification of BP readings without removing the cuff

Accuracy: Customizable BP averaging protocol to ensure accurate, consistent readings

Connectivity: Transfer of data using IHE protocols with network connection through built-in ethernet or optional Wi-Fi

Flexibility: Modular design for addition of optional temperature and SpO₂ modules

Simplicity: Intuitive user interface with LCD display

Standard Features

- Clinical-grade Advantage™ BP technology
- Customizable BP averaging (SPRINT recommended)
- Manual SphygMode™ for real-time BP verification
- HL7 messaging for data transfer
- Built-in memory - up to 99 charting sessions
- LCD display with simple design for ease of use
- LAN/Ethernet & 2 USB ports

Options & Accessories

- Touchless IR Thermometry*
- Covidien Filac® 3000 Thermometry
- Masimo SET® SpO₂ (preferred)
- ChipOx Nellcor®-compatible SpO₂
- Barcode Scanner
- Mobile stand
- Printer
- Wi-Fi

Limited Warranty

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

Main unit, SpO₂ modules, temp modules: 3 years

OPD Blood Pressure Cuffs: 2 years

Accessories (SpO₂ sensors, temp probes, BP hose, etc): 90 days

CT40 Base Unit Includes:

- 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

Blood Pressure Specifications

Range: 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)

Accuracy (BP): Meets or exceeds ANSI/AAMI/ISO 81060-2:2013 standard for non-invasive accuracy (±5mmHg mean error with 8mmHg standard deviation).



SpO₂ Specifications

Function	Masimo M-LNCS DCI Reusable Sensor	ChipOx
Saturation Normal (no motion)	70-100%Arms ± 2%	70-100%Arms ± 2%
Saturation Motion	70-100%Arms ± 3%	N/A
Low Perfusion	SpO ₂ +/-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	Body Temperature (36-39°C) ± 0.2°C	Quick Mode (Oral): ± 0.3°C
	Body Temperature (34.0-35.9, 39.1-42.5°C) ± 0.3°C	Std. Mode (Aux/Rectal): ± 0.1°C
	Wide Temperature (15-60°C) ± 2°C	Direct Mode ± 0.1°C
Response Time	< 2 seconds	4 sec (quick mode); 10-15 sec. (Axillary/Rectal); 60 sec.(direct mode)
Resolution	0.1°C	0.1°C

General Specifications

- Conditions for Use:** 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.
- Storage:** -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.
- Power:** Internal power supply. Input: 100-240 VAC @ 1.5A max, 50-60 Hz. Output +9VDC @ 5A IEC 320 type input connector.
- Battery:** 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
- Calibration:** The accuracy of cuff -pressure transducers/indicators should be verified bi-annually.
- Safety Systems:** 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.
- Dimensions:** Size (without thermometer option): 8" H x 6.75" W x 5.2" D or 215mm H x 190mm W x 140mm D
- Standards:** 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
- Classifications:** Equipment Classification: Class IIa per MDD, Class I (Electrical Shock), Continuous mode of operation, CE
- Ingress of liquid:** Ingress Protection: IPX1: This device is protected against harmful effects of dripping water per IEC 60529.



Masimo SET® SpO₂
(preferred)



Covidien Filac® 3000
Thermometry



ChipOx Nellcor®-
compatible SpO₂



Touchless IR
Thermometry*

Wi-Fi

Mobile Stand

Thermal
Printer



Barcode
Scanner



 **SunTech Medical**[®]
The Difference In Clinical Grade[®]

Masimo® and SET® are registered trademarks of Masimo Corporation.
Covidien® and FILAC® are registered trademarks of Covidien AG Corporation.
Nellcor® is a registered trademark of Covidien LP Limited Partnership.

*not available in North America

With more than 30 years dedicated to developing our world-class blood pressure technology, we are confident that we don't miss a beat - so you won't either. It's our legacy. It's SunTech Medical. **It's The Difference In Clinical Grade.**



SunTech Medical, Inc.
507 Airport Boulevard, Suite 117
Morrisville, NC 27560-8200 USA
Tel: + 1.919.654.2300
1.800.421.8626
Fax: +1.919.654.2301
SunTechMed.com

EC REP

EMERGO Europe
Prinsessegracht 20
2514 AP The Hague
The Netherlands

SunTech Medical (Shenzhen) Co., Ltd.
105 HuanGuan South Road, Suite 15 2~3/F
DaHe Community Guanlan,
LongHua District, Shenzhen
GuangDong PRC 518110
Tel.: + 86.755.29588810
+ 86.755.29588986 (Sales)
+ 86.755.29588665 (Service)
Fax: + 86.755.29588829
SunTechMed.com.CN



82-0141-00 MA Rev. C

SunTech CT40 Part Numbers

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 ₂ Module
98-0411-01	Masimo SET® SpO ₂ 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 ₂
99-0134-0X + 98-0411-00	BP, Nellcor® comp. SpO ₂
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 ₂
98-0134-0X + 98-0411-02 + 98-0411-00	BP, FILAC® Temp, Nellcor® comp. SpO ₂
99-0134-0X + 98-0411-03 + 98-0411-01	BP, Touchless Temp, Masimo® SpO ₂
99-0134-0X + 98-0411-03 + 98-0411-00	BP, Touchless Temp, Nellcor® comp. SpO ₂

SpO₂

Masimo SET® SpO₂ Module Accessories

Masimo® M-LNCS DCI Adult SpO₂ Reusable Sensor, 2501*

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

*Contact Masimo® for replacement orders

ChipOx Nellcor Compatible SpO₂ Module

52-0010-00 Reusable Adult SpO₂ 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

SunTech CT40 Part Numbers (continued)

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