

HBP-T105 Vital Signs Monitor

Technical Specifications

Part Number	Model	Description
105-NTP	HBP-T105 NXP ne	NIBP, Nellcor® SpO ₂ , Temperature, printer
105-MTP	HBP-T105 NXP ma	NIBP, Masimo® SpO ₂ , Temperature, printer
105-NP	HBP-T105 NXP ne	NIBP, Nellcor® SpO ₂ , printer
105-MP	HBP-T105 NXP ma	NIBP, Masimo® SpO ₂ , printer
105-TP	HBP-T105 NTP	NIBP, Temperature, printer
105-P	HBP-T105 NP	NIBP, printer
105-NT	HBP-T105 NXT ne	NIBP, Nellcor® SpO ₂ , Temperature
105-MT	HBP-T105 NXT ma	NIBP, Masimo® SpO ₂ , Temperature
105-N	HBP-T105 NX ne	NIBP, Nellcor® SpO ₂
105-M	HBP-T105 NX ma	NIBP, Masimo® SpO ₂
105-T	HBP-T105 NT	NIBP, Temperature
105	HBP-T105 N	NIBP

Non-Invasive Blood Pressure (NIBP)

Measurement technology	Oscillometric method
Measurement method	Linear deflation method
Measurement time	Normal / High speed selectable
Pressure display range	0 to 299mmHg
Pressure display accuracy	±3mmHg
NIBP Measurement range:	
Adult/pediatric mode	
SYS	60 to 250mmHg
MAP	45 to 235mmHg
DIA	40 to 200mmHg
Pulse rate	40 to 200/min
Neonatal mode	
SYS	40 to 120mmHg
MAP	30 to 100mmHg
DIA	20 to 90mmHg
Pulse rate	40 to 240/min
NIBP accuracy	ANSI / AAMI SP-10
Hose Connector	RECTUS
Pulse rate accuracy	±2% or ±2 beats

Nellcor® SpO₂ Option (Pulse Oximeter)

Measurement Method	2 wave length pulse wave type (OXIMAX® technology)
Measurement Range	70 to 100% SpO ₂
Measurement Accuracy	±2% SpO ₂ (70 to 100% SpO ₂ when using SpO ₂ disposable sensor MAX-A) ±3% SpO ₂ (70 to 100% SpO ₂ when using SpO ₂ reusable sensor DS-100A)
Pulse Rate Range	20 to 250/min
Pulse Rate Accuracy	±3/min
Display Update	Less than 30sec

Masimo® SpO₂ Option (Pulse Oximeter)

Measurement Method	2 wave length pulse wave type (Masimo SET® technology)
Measurement Range	1 to 100% SpO ₂
Measurement Accuracy	±2 digits SpO ₂ (70 to 100% SpO ₂ , Adult/Pediatric, without motion) ±3 digits SpO ₂ (70 to 100% SpO ₂ , Neonatal, without motion)
Pulse Rate Range	25 to 240/min
Pulse Rate Accuracy	±3/min
Display Update	Less than 30sec

Alaris® Temperature Option

Measurement Method	Turbo Temp® Electronic Predictive Thermometer
Measurement Site	Sub lingua and Axilla
Probe Type	Oral 2887A
Measurement Range	35.6°C - 41.1°C (96.1°F - 105.9°F) (Predictive mode) 26.7°C - 41.1°C (80.1°F - 105.9°F) (Monitoring mode)
Measurement Accuracy	±0.1°C (±0.2°F) (Monitoring mode)

Communications Option

Type	RS-232 Port
Output	HL7

Printer Option

Type	Thermal line head
Resolution	8 dot/mm
Paper Type	Thermal
Paper Width	58mm (2.28in)
Print Speed	25.0mm/sec

General

Dimensions	
Main Unit	239(W) x 239(D) x 150(H)mm (9.4 x 9.4 x 5.9in)
AC Adaptor	150(W) x 47(D) x 75(H)mm (5.9 x 1.8 x 2.9in)
Weight, Main Unit	3.6kg (8.1lbs) (including all options but excluding accessories)
Display Method	LED
Type of protection	Type BF - Applied part
Protection Class	Class I

Power Requirement

AC Power	AC 100-240V, 50/60Hz
Battery	12V, 3.2Ah
Type	Lead acid
Operating Time	6 hours when fully charged, with no printing, 1 NIBP measurement every 15 minutes, in power-saving mode, at 25°C (77°F)
Charging Time	6 hours from fully empty to fully charged
Battery Saving Mode Function	Yes

Environmental

Operating Temperature	0 to 40°C (32 to 104°F)
Storage Temperature	-20 to 60°C (-4 to 140°F)
Operating Humidity	30 to 85% (non-condensing)

Standard Accessories

All models include: reusable adult cuff, adult 3.5m cuff hose, operation manual, and power cord.

Models with optional SpO₂ also include:

Nellcor® SpO₂: DOC-10 extension cable and DS-100 sensor.
Masimo® SpO₂: LNC-10 extension cable and LNCS DCI sensor.

Models with optional temperature also include: Alaris® Turbo Temp® oral temperature probe, and 1 box of probe covers.

Models with optional recorder also include 2 rolls of recorder paper.

Additional Accessories

Economy rolling stand, deluxe rolling stand; RS-232 communications module; bar code reader; a full size range of reusable and disposable BP cuffs to fit adults, pediatrics, or neonates; neonatal cuff hose; recorder paper.

