



Infinity[®] M300+

Telemetry

The Infinity[®] M300+ provides continuous surveillance of telemetry patients using the hospital's existing WiFi network. The compact size supports patient mobility while the integrated color screen continuously displays patient vital signs and waveforms. In addition, the M300+ produces visible and audible alarms to alert you to changes in your patient's condition.

Infinity® M300+

Compact and lightweight design

Intended to encourage patient mobility while fully monitored both within and outside the care unit

Multi-function key pad

Designed for ease of use

Swappable battery

Can be easily removed when power is low and replaced with a fully-charged battery

D-2409-2019



High resolution color display

Enables easy-to-see patient vital signs and ECG waveforms

Expanded network functionality

Offers expanded network options and supports wireless encryption for enhanced security

Benefits

Ease of Use

The M300+ is designed for ease of use featuring an easy-to-see color display, multi-function key pad and easy battery replacement that retains all patient data during the process.

Supports Clinical Workflow

Battery replacement is complementary to patient care needs and is adaptable to individual care unit schedules or on an as-needed basis.

Designed for Patient Comfort

The compact, lightweight device was designed to be worn comfortably while enabling increased mobility.

Expanded Network Functionality

The M300+ offers expanded network options, including IEEE 802.11b/g/n (2.4 GHz) or 802.11 a/n (5GHz). It supports wireless encryption, including WPA2– Enterprise Mode (EAP-TLS and PEAP methods) for enhanced security. And it has an embedded FIPS-validated Wi-Fi module for data encryption to help maintain confidentiality and wireless data integrity. To keep your device and patient data safe, the M300 offers integrated cybersecurity measures with the implementation of features such as wireless encryption, user authentication and data integrity, which can ensure a secure exchange of patient data between the Infinity CentralStation and the Infinity M300+.

System Components

D-10185-2018



Infinity® CentralStation Wide

Viewing comprehensive real-time and retrospective clinical data supports you in making the most effective care decisions for your patients. Infinity® CentralStation Wide brings hemodynamic vital signs together with values from interfaced ventilators and anesthesia devices.

D-25743-2017



Infinity M300+ Battery Charging Station

The wall-mountable or counter top M300+ battery charging station recharges up to 10 M300+ batteries at a time. The charging station provides auto shut-off to prevent overcharging, and indicates charging status through illuminated LEDs.

Technical Data

SUPPORTED PARAMETERS

ECG

Available leads	3-wire lead set: I, II, or III 5-wire lead set: I, II, III, aVL, aVR, aVF, V 6-wire lead set: I, II, III, aVL, aVR, aVF, V, V+ 6-wire lead set with Infinity® TruST: I, II, III, aVL, aVR, aVF, dV1, V2, dV3, dV4, V5, dV6
Leads analyzed	Any one or two user-selected ECG leads (simultaneously)
Detected arrhythmia events/rhythms	asystole, ventricular fibrillation, ventricular tachycardia, ventricular run, accelerated idioventricular rhythm, supraventricular tachycardia, ventricular couplet, bigeminy, tachycardia, bradycardia, sinus pause, AAR artifact PVC/min
Heart rate alarm setting range	20 to 300 bpm
Heart rate measurement range	15 to 300 bpm
Accuracy	± 2 bpm or ± 1%, whichever is greater
Degree of protection against electrical shock	Type CF
Defibrillation protection	In accordance per IEC 60601-2-27
Monitoring frequency	Filter Monitoring: 0.5 - 40 Hz
Sweep speed	25 mm/s ± 10%
QRS detection	Amplitude: 0.5 - 5.0 mV Duration: Adult: 70 - 120 ms Pediatric: 40 - 120 ms
Electrosurgery and cautery	Not intended for use during ESU procedures
Pacer Detection	Leads I and (II or III)
Amplitude	± 2 to ± 700 mV
Width (dp)	0.2 to 2.0 ms

ST Segment Analysis

Leads analyzed	3-wire: I, II, or III 5-wire: I, II, III, aVL, aVR, aVF, V 6-wire: I, II, III, aVL, aVR, aVF, V, V+ 6-wire with Infinity TruST: I, II, III, aVL, aVR, aVF, dV1, V2, dV3, dV4, V5, dV6
Isoelectric point	Default: -28ms (before J-point)
ST measurement point	Default: +80 ms (after J-point)
ST complex	Length: 900 msec (250 samples) Frequency response: 0.05 to 40 Hz
Update interval	15 seconds
ST measurement and alarm limit ranges	-15.0 to 15.0 mm, -1.5 to 1.5 mV

Technical Data

ST measurement accuracy	± 0.5 mm (0.05 mV) or 15% RTI (with respect to input) whichever is greater for all leads, excluding STVM and STCVM
ST measurement resolution	0.1 mm, 0.01 mV

Pulse Oximetry (optional)

Parameter display	Pulse oximetry oxygen saturation percentage (SpO ₂), pulse rate
Measuring method	Absorption-spectrophotometry
Measurement and display range	SpO ₂ : 1 - 100% Pulse rate: 30 - 250 bpm
Calibration range	70 - 100%
Display update period	2 seconds nominal
Maximum hold from previous update	30 seconds (in the event of artifact or other error)
SpO ₂ Alarm Range	20 to 100%
Pulse Rate Alarm Range	30 to 240 bpm

Accuracy

SpO ₂	0 to 69% not specified
	70 to 100% sensor-specific as follows:

Masimo® LNCS Sensors - SpO₂ accuracy^{1,2,3,4}:

LNCS DCI, LNCS DCIP, LNCS Adtx, LNCS Pdtx	Not specified
Pulse rate accuracy	±3 bpm or ±3%, whichever is greater
Low perfusion accuracy, SpO ₂	±2%
Low perfusion accuracy, pulse rate	±3 bpm or ±3%, whichever is greater

Masimo® RD SET Sensors - SpO₂ accuracy^{1,2,3,4}:

RD SET Adt, RD SET Pdt	±2 %
Pulse rate accuracy	±3 bpm or ±3%, whichever is greater
Low perfusion accuracy, SpO ₂	±2%
Low perfusion accuracy, pulse rate	±3 bpm or ±3%, whichever is greater

Nellcor™ Sensors - SpO₂ accuracy^{1,2,3,4}:

OxiMax™ MAX-A, OxiMax™ MAX-AL, OxiMax™ MAX-P, DS100A	±3%
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Technical Data

Dräger Sensors - SpO₂ accuracy^{1, 2, 3, 4}:

MS16444 disposable foam pedi, MS16445 disposable foam ad, ±2%
MS16449 disposable vinyl ad, MS16448 disposable vinyl pedi,
MS13235 reusable sensor

NOTES:

¹ Since SpO₂ measurements are statistically distributed, only about two-thirds of those measurements can be expected to fall within ±1 Arms of the value measured by a CO-oximeter.

² These accuracies have been validated using blood samples obtained from healthy adult volunteers during induced hypoxia studies in the range of 70 to 100% SpO₂ against a laboratory CO-oximeter and ECG monitor.

³ SpO₂ accuracies are expressed as ± "X"% between indicated saturation levels. This variation of the SpO₂ measurement equals ± 1 Arms of the value measured by a CO-oximeter.

⁴ The pulse rate accuracy has been validated on healthy adult volunteers during induced hypoxia studies in the range of 70 to 100 % SpO₂ against a laboratory CO-oximeter and ECG monitor. This variation equals ± 1 Arms of the pulse rate value measured by the ECG monitor.

User Interface

Controls 6 function keys: alarm pause, view screen, staff alert, record/
mark event, up/down scroll

Alarms Audible & visible alarm indication (user controlled) 3 severity
levels: Life threatening, Serious, Advisory

Display

Size/viewing area 5.5 cm (2.17 in) diagonal LCD

Resolution 220 x 176 pixels

Communications

Network IEEE 802.11 b/g/n (2.4 GHz); 802.11 a/n (5 GHz) (DFS
channels not supported)

Wireless Security WPA2 - Personal Mode
WPA2 - Enterprise Mode; EAP-PEAP
WPA2 - Enterprise Mode; EAP-TLS

WPA2 – Enterprise RSA Key 2048-bit maximum
Cipher suite AES128-SHA preferred

Radio power output 30 mW (2.4 GHz) / 25 mW (5 GHz)

Technical Data

Physical Specifications

Size, H x W x D with battery attached	157.5 mm x 81.1 mm x 30.6 mm (6.2 in x 3.19 in x 1.2 in)
Weight	310 g +/- 5g (10.93 oz)
Cooling	Convection
Connections	ECG, communication port for SpO ₂ , programming cable

Electrical Specifications

Power source	Rechargeable 3.6 V lithium-ion swappable battery, available from Dräger
Estimated battery operating time	ECG only: 22 h ECG and continuous SpO ₂ : 18 h Duration of operation varies according to use of display, alarms, and wireless environment (roaming).

NOTE: The duration of the battery operation for the M300+ may be reduced by characteristics of the wireless environment such as signal quality, power levels, power-save mode, etc. The battery operating life can also gradually diminish over time.

Environmental Requirements

Temperature

Operating	0°C to 40°C (32°F to 104°F)
Storage	-20°C to 60°C (-4°F to 140°F)

Humidity (non condensing)

Operating	10% to 95%
Storage	5% to 95%

Atmospheric pressure

Operating	64.7 to 106 kPa
Storage	50 to 106 kPa
Free fall	IEC 60068-2-32, Procedure 1 Height of fall: 1 m Number of falls: 1 on each of six surfaces

Technical Data

Infinity M300+ battery charging station

Physical Specification

Size, H x W x D	101.6 x 508 x 114.3 mm (4 x 20 x 4.5 in)
Weight, with 0 batteries	1.46 Kg (3.25 lb)
Weight, with 10 batteries	2.46 Kg (5.4 lb)
Cooling	Convection

Electrical Specifications

Input voltage	100 V to 240 V AC
CAUTION: Use a surge protector with all electrical hookups.	
Input frequency (Hz)	50 Hz to 60 Hz AC inputs
Protection Class	Class 1
Mode of Operation	Continuous
Swappable battery recharging time	0 to 100 % within approximately 4 h

Environmental Requirements

Ambient pressure	Operating: 64.7 to 106 kPa Storage: 50 to 106 kPa
Temperature	Operating: 0 to + 40 °C (32 to 104°F) Storage: -20 to + 60 °C (-4 to +140°F)
Humidity (non-condensing)	Operating: 10% to 95% Storage: 5% to 95%

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