CARESCAPE™ ONE Monitoring System

All in ONE

The visionary CARESCAPE ONE monitoring system defies the conventional thinking of an intra-hospital transport solution. Durable, lightweight, and intelligently designed CARESCAPE ONE monitor and miniaturized CARESCAPE PARAMETER devices can dynamically flex across care areas and acuities without the need for additional hardware or software configurations.

One solution for enhanced care and optimized workflow

The CARESCAPE ONE monitoring system consists of CARESCAPE ONE monitor and miniaturized CARESCAPE PARAMETER devices.

The CARESCAPE ONE monitor

- The CARESCAPE ONE monitor is truly modular open architecture based intra-hospital transport unit with large screen and interchangeable medical USB connectors.
- The CARESCAPE ONE monitor with its ultra-light, portable and compact design and highly visible display makes any bed a transport bed.
- The CARESCAPE ONE monitor supports bedside and transport clinical workflows across different patient environments and acuity levels by functioning as an independent intra-hospital transport monitor and a multi-parameter acquisition module compatible with the CARESCAPE B850 monitor.
- The CARESCAPE ONE monitor familiar user interface and auto-rotating screen further reduces typical workflow challenges.
- The CARESCAPE ONE monitor integrates with the CARESCAPE Gateway with data backfill and enables gapless communications to EMR systems when connected to the CARESCAPE B850 bedside monitor.

The CARESCAPE PARAMETER devices

- The CARESCAPE PARAMETERS provide comprehensive set of flexible measurements and meet the various needs for low and high acuity intra-hospital transfer.
- The CARESCAPE PARAMETERS are minimized in size and enable parameter plug-and-play experience for streamlined workflow.
- The CARESCAPE PARAMETERS together with full CARESCAPE ONE monitoring system utilize the latest level of GE's clinical algorithms to aid in accurate diagnosis including 12SL™, GE EK-Pro, four ECG lead simultaneous arrhythmia analysis with ST detection, GE DINAMAP™ SuperSTAT non-invasive blood pressure, Masimo™ SET™ SpO_2,Nellcor™ Oximax™ SpO_2, GE TruSignal™ SpO_2, and Respironics™ LoFlo CO_2.

One solution for protecting long-term investments

- The CARESCAPE ONE monitoring system provides a standardized yet fully flexible platform with one device and one software to support cost effective fleet management.
- The CARESCAPE ONE monitoring system works throughout various care areas enabling plug-and-play upgradability when needs evolve.
- The visionary and extendable design of CARESCAPE ONE monitoring system will enable easy integration of today's and tomorrow´s technologies.
- The CARESCAPE ONE monitor's rugged engineering with protective frame, Dragontrail™ screen and over-mold manufactured CARESCAPE PARAMETERS are designed to withstand harsh treatments.
- Selection of regional warranty programs, maintenance contracts and repair options, two-year preventive maintenance schedule and a comprehensive set of field replacement service parts can lower the cost of ownership of the CARESCAPE ONE monitoring system and simplify long-term capital equipment planning.

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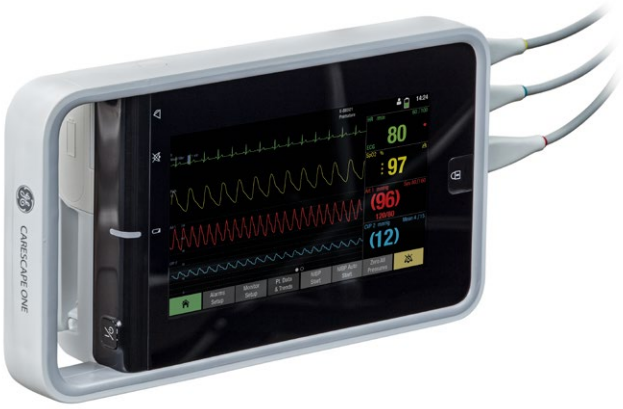
Technical specifications

CARESCAPE ONE monitor



Display

Display characteristics

Size	7 inch diagonal
Type	Active matrix color TFT LCD
Resolution	800x480
Layout and colors	User-configurable
Technology	Projected capacitive touch screen

Touch screen with direct function keys and selections and adjustments in menus.

Rotation	Display image rotates when CARESCAPE ONE is rotated 180 degrees.
Analog out / Defibrillator synchronization connector	Invasive pressure and ECG analog outputs. Defibrillator synchronization input and output signals.

Waveforms and digit fields

Waveform fields	Up to 4 simultaneously
Parameter windows	Up to 7 simultaneously
Digit fields	Up to 4

Power specifications

Power requirements	Battery or DC input from CARESCAPE F0 Dock
Output	15VDC nominal, 60 W (Max)
Cooling	Natural convection

Battery

Type	One removable Lithium-Ion battery
Voltage	10.8 Volt (nominal)
Capacity	3.8 Amp hour minimum (new)
Charge time	4 hours
Run time	Approximately 5 hours (new, fully charged)
Battery life	300 cycles to 60% capacity
Battery status	LED indicators on the battery

Environmental specifications

Operating conditions

Temperature	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5573 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP41

Physical specifications

Dimensions (H x W x D)	15.5 cm x 27.0 cm x 6.5 cm (6.1 in x 10.6 in x 2.6 in)
Weight	<1.85 kg (4.08 lbs) with battery

CARESCAPE Dock F0

Environmental specifications

Operating conditions

Temperature	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5573 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP41

Physical specifications

Size (H x W x D)	9.0 cm x 21.0 cm x 7.5 cm (3.5 in x 8.3 in x 3.0 in)
Weight	< 0.5 kg (1.0 lb)

CARESCAPE PARAMETERS

The following CARESCAPE PARAMETER devices are currently available with CARESCAPE ONE monitor

CARESCAPE ECG, CARESCAPE SpO_2 - GE, CARESCAPE SpO_2 - Nellcor, CARESCAPE SpO_2 - Masimo, CARESCAPE Invasive Pressure, CARESCAPE Temperature, CARESCAPE CO_2 - LoFlo

ECG

Standard leads available	I, II, III, V1 to V6, aVR, aVL, and aVF
Leadsets supported	3-, 5-, 6-, and 10-leadwire
Lead fail	Identifies failed electrodes and switches to those intact
Lead fail sensing current	Active patient electrode: 12.8 nA typical (each) Reference electrode < 150 nA maximum
Gain selections	0.5x = 5 mm/mV 1x = 10 mm/mV 2x = 20 mm/mV 4x = 40 mm/mV

Display bandwidth

Diagnostic	0.05 to 150 Hz
Monitoring	50 Hz powerline frequency: 0.05 to 32 Hz 60 Hz powerline frequency: 0.05 to 40 Hz
Moderate	0.05 to 23 Hz
Maximum	4.5 to 27 Hz
Differential offset voltage	±0.4V

Input impedance

Differential	> 2.5 M Ω from dc to 60 Hz
Maximum tall T-wave rejection capability	< 4.5 mV with a 1 mV QRS test signal
Pacemaker marker	5 V, 2 ms pulse; summed with the ECG analog output
Defibrillator sync delay	< 35 ms
Defibrillation protection	5000 V, 360 J

Analog output

ECG signal gain	1 V/1 mV ±10%
ECG signal bandwidth	Diagnostic: 0.05 to 125 Hz Monitoring: 0.05 to 40 Hz Moderate: 0.05 to 25 Hz Maximum: 0.05 to 25 Hz
ECG analog output delay	< 35 ms

Input specification

QRS detection range	±0.5 mV to ±5 mV
QRS detection width	40 ms to 120 ms (Q to S)
Heart rate range	20 to 300 beats per minute
Common mode rejection	90 dB minimum at 50 / 60 Hz
Signal gain accuracy	±5%
Noise	< 30 µV (referred to input)
Sampling rate	500 samples/second

Heart rate

The ECG heart rate indicates a new heart rate for a simulated step increase of 80 to 120 bpm and a step decrease of 80 to 40 bpm in less than 10 s.

Heart rate calculation operates with irregular rhythms IEC 60601-2-27 Clause 201.7.9.2.9.101 b) 4), according to Figure 201.101, as follows

Ventricular bigeminy	80 bpm
Slow alternating ventricular bigeminy	59 bpm
Rapid alternating ventricular bigeminy	126 bpm
Bidirectional systoles	110 bpm
Heart rate averaging computation	12-second median HR values 12-second HR median calculation extended to a maximum of 32 seconds based on signal noise when software package is ICU, ED, OR, or PACU.
Display update interval	< 2 seconds

Response time	Display a new heart rate for a step increase of 80 to 120 bpm and a step decrease of 80 to 40 bpm in less than 10 s.
PVC rate range	0 to 300 PVCs/minute
PVC rate resolution	1 PVC/minute
Arrhythmia calls	Full, lethal only, or no arrhythmia

ST segment analysis

Measurement description	ST segment deviation is measured for all acquired leads
ST display	Lead with the most deviation
ST numeric range	-20.0 mm to 20.0 mm
ST numeric resolution	0.1 mm
ST measurement	16 beats averaging
ST numeric accuracy	±0.4 mm or 20%, whichever is greater

Pace detection/rejection

Input voltage range for pace detection and rejection	±2 mV to ±700 mV
Input pulse width	0.1 ms to 2 ms
Over/under shoot	Overshoot measured using Method A of AAMI EC13 4.1.4.2
Heart rate accuracy	±1% or ±1 bpm, whichever is greater
Heart rate resolution	1 bpm
Heart rate sensitivity	≥ 0.5 mV peak

Alarms

Heart rate limit alarms	User selectable upper and lower limits for heart rate
Heart rate limit alarm range	0 to 300 beats/minute
ST limit alarms	User selectable upper and lower limits for individual leads
PVC limit alarms	User selectable upper limit
SVC limit alarms	User selectable upper limi
Arrhythmia alarms	Lethal, full

Power specification

Consumption	625 mW maximum
Input voltage	5 VDC ±0.25 VDC
Input current	125 mA maximum

Environmental specifications

Operating conditions

Temperature	0°C to 35°C (32°F to 95°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5573 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

Physical specifications

Length	3.7 m or 1.9 m (12.1 or 6.2 ft)
Weight	<0.57 kg (1.26 lb), includes long 10 leadwire set

Impedance respiration

Rate range	0 to 200 breaths/minute
Rate resolution	1 breath/minute
Leads available	I, II, and RL-LL
Waveform sweep speed options	0.625 mm/s, 6.25 mm/s, 12.5 mm/s, 25 mm/s, and 50 mm/s
Respiration sensing current	< 100 uA RMS

Input impedance range

Dynamic	0.4 to 10 Ω
Static	100 to 1500 Ω @52.3 kHz
Accuracy	±1 breath/minute over the range of 0 to 120 breaths per minute ±3 breaths/minute over the range of 121 to 200 breaths per minute
Carrier frequency	52.3 kHz ±5 Hz

Alarms

Alarm limit	User-selectable upper and lower limits
Alarm range	4 to 120 breaths/minute
No Breath alarm range	3 to 30 seconds

Pulse Oximetry

SpO_2 displayed saturation values

GE TruSignal, Masimo SET, and Nellcor OxiMax pulse oximetry are calibrated to display functional saturation.

Alarms

Alarm limits	User selectable upper and lower limits for SpO_2
Alarm limit range	Upper limit 32 - 100% Lower limit 30 - 100%
Alarm limit increment	1 %
Pulse rate alarm limits	User selectable upper and lower limits for SpO_2 pulse rate
Pulse rate alarm limit increment	1 beat/minute

Performance specifications

Display resolution	1 digit (% of SpO_2)
Peripheral pulse rate resolution	1 bpm
Display update period	Less than 30s
Sweep speed options	6.25, 12.5, 25, and 50 mm/s
Waveform scale options	GE TruSignal: AUTO, 50, 20, 10, 5, 2 Masimo and Nellcor: 1x, 2x, 4x, and 8x
Parameters monitored	Arterial oxygen saturation (SpO_2) and pulse rate

TruSignal

Range	SpO_2: 0 to 100% Pulse rate: 30 to 300 bpm
Accuracy	
Without motion	SpO_2 (70% to 100%): ±2 Adult/ Pediatric, ±3 Neonatal SpO_2 (<70%): Unspecified
With motion	SpO_2 (70% to 100%): ±3 Adult/ Pediatric/Neonatal SpO_2 (<70%): Unspecified
Low perfusion	SpO_2 (70% to 100%): ±2 Adult/ Pediatric, ±3 Neonatal SpO_2 (< 70%): Unspecified

Masimo[1]

Range	SpO_2: 0 to 100% Pulse Rate: 25 to 240 bpm
Accuracy	
Without motion	SpO_2 (70% to 100%): ±2 Adult, ±3 Neonatal SpO_2 (< 70%): Unspecified
With motion	SpO_2 (70% to 100%): ±3 Adult/ Neonatal SpO_2 (< 70%): Unspecified
Low perfusion	SpO_2 (70% to 100%): ±2 Adult, ±3 Neonatal SpO_2 (< 70%): Unspecified

Nellcor

Range	SpO_2: 1 to 100% Pulse rate: 20 to 300 bpm
Accuracy	
With/without motion	SpO_2 (70% to 100%): ±2 Adult/ Neonatal SpO_2 (60% to 80%): ±3 Adult/ Neonatal SpO_2 (< 60%): Unspecified
Low perfusion	SpO_2 (70% to 100%): ±3 Adult/ Neonatal SpO_2 (< 70%): Unspecified

Peripheral pulse rate

TruSignal

Low perfusion range	0.03 - 20%
Accuracy	
Without motion	30 to 250 bpm ±2 Adult/ Pediatric/Neonatal
With motion	30 to 250 bpm ±5 Adult/ Pediatric/Neonatal
Low perfusion	30 to 250 bpm ±3 Adult/ Pediatric/Neonatal

Masimo[1]

Low perfusion range	0.02 - 20%
Accuracy	
Without motion	25 to 240 bpm ±3 Adult/ Pediatric/Neonatal
With motion	20 to 240 bpm ±3 Adult/ Pediatric/Neonatal
Low perfusion	25 to 240 bpm ±3 Adult/ Pediatric/Neonatal

[1] Masimo rainbow SET technology performance

Nellcor

Low perfusion range	0.03 - 20%
Accuracy	
Without motion	20 to 250 bpm ±3 Adult/ Neonatal
With motion	20 to 250 bpm ±5 Adult/ Pediatric/Neonatal
Low perfusion	20 to 250 bpm ±3 Adult/Neonate

Power specification

TruSignal

Consumption	375 mW maximum
Input voltage	5 VDC ±0.25 VDC
Input current	75 mA maximum

Masimo

Consumption	2.15 W maximum
Input voltage	5 VDC ±0.25 VDC
Input current	430 mA maximum

Nellcor

Consumption	350 mW maximum
Input voltage	5 VDC ±0.25 VDC
Input current	

Environmental specifications

TruSignal

Operating conditions

Temperature	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5573 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

Masimo[1]

Operating conditions

Temperature	0°C to 35°C (32°F to 95°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5572 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

Nellcor

Operating conditions

Temperature	0°C to 35°C (32°F to 95°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5572 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

Physical specifications

TruSignal

Length	3.0 m or 1.8 m (9.8 or 5.9 ft)
Weight	<0.17 kg (0.38 lb)

Masimo[1]

Length	1.9 m or 1.0 m (6.2 or 3.3 ft)
Weight	<0.33 kg (0.82 lb)

Nellcor

Length	3.6 m or 1.2 m (11.8 or 3.9 ft)
Weight	<0.20 kg (0.44 lb)

[1] Masimo rainbow SET technology performance

NIBP

Performance specifications

Measurement technique	Oscillometric
Displayed parameters	Systolic, diastolic, and mean pressures, time of last measurement, and cuff pressure
Modes	Manual, Auto and Stat
Total cycle time	20 to 40 seconds typical (Dependent on heart rate, pressure, and motion artifact)

Measurement range

Adult	15 to 300 mmHg (2.0 to 40.0 kPa)
Child	15 to 260 mmHg (2.0 to 34.7 kPa)
Infant	15 to 155 mmHg (2.0 to 20.7 kPa)

NIBP pressure display range

Adult	15 to 300 mmHg (2.0 to 40.0 kPa)
Child	15 to 260 mmHg (2.0 to 34.7 kPa)
Infant	15 to 155 mmHg (2.0 to 20.7 kPa)
Cuff pressure range	0 to 315 mmHg (0.0 to 42.0 kPa)

Pressure accuracy

Static	±2% or ±3 mmHg (0.4 kPa), whichever is greater
Clinical	±5 mmHg (0.7 kPa) average error, 8 mmHg (1.1 kPa) standard deviation
Auto zero	Auto zero pressure reference
Automatic cuff deflation conditions	Power off Adult and child cuff cycle time exceeding 125 seconds Infant cuff cycle time exceeding 90 seconds Adult and child cuff pressure exceeds 300 mmHg (40.0 kPa) Infant cuff pressure exceeds 150 mmHg (20.0 kPa)
Tubing length	Variable

Cuff sizes

Disposable	Large adult, adult, small adult, pediatric, child, and neonatal
Reusable	Adult thigh, large adult, adult, small adult, small adult/child, child, and infant

Maximum inflation pressures

Adult	290 ±6 mmHg (38.7 ±0.8 kPa)
Child	250 ±5 mmHg (33.3 ±0.7 kPa)
Infant	145 ±5 mmHg (19.3 ±0.7 kPa)

Automatic cycle times

1 min, 2 min, 2.5 min, 3 min, 4 min, 5 min, 10 min, 15 min, 20 min, 30 min, 1 h, 2 h and 4 h

Default NIBP measurement initial inflation pressures

Adult	135 mmHg (18.0 kPa)
Child	125 mmHg (16.7 kPa)
Infant	100 mmHg (13.3 kPa)

Alarms

NIBP limit alarms	User selectable upper and lower limits for systolic, diastolic, and mean pressures

Invasive Pressure

Performance Specifications

Number of channels	2
Transducer sites, site name, and displayed values	Arterial (ART) Systolic, diastolic, mean and rate Femoral (FEM) Systolic, diastolic, mean and rate Femoral Vein (FEMV) Mean Pulmonary artery (PA) Systolic, diastolic, mean Central venous pressure (CVP) Mean Intra-cranial pressure (ICP) Mean Left atrial (LAP) Mean Right atrial (RAP) Mean Right vein (RVP) Mean Umbilical artery (UAC) Systolic, diastolic, mean, and rate Umbilical vein (UVC) Mean
Range	-98 mmHg to 349 mmHg (-13.1 to 46.5 kPa)
Resolution	1 mmHg
Displayed frequency response	0 to 12 Hz or 0 to 40 Hz (-3dB) user-selectable
Zero balance accuracy	±1 mmHg (±0.1 kPa)
Measurement accuracy	±0.5% ±1.50 mmHg (excluding transducer) ±4% or ±4 mmHg, which ever is greater (including transducer)
Pulse rate accuracy	±2% or ±2 bpm, whichever is greater
Units	mmHg or kPa
Sweep speed options	6.25, 12.5, 25, and 50 mm/s
Pulse rate range	0 to 360 bpm
Pulse rate resolution	1 bpm
Waveform display scale	User and automatic
Display scale selections	0-10, to 0-300 mmHg, with a step size of 10 mmHg (0.0-2.0, to 0.0-40.0 kPa, with a step size of 2.0 kPa); or automatic scale based on valid waveform values from last 4 seconds with a lower limit of -100 mmHg (-14 kPa) and an upper limit of 350 mmHg (48 kPa) and a step size of 10 mmHg (2.0 kPa)
Transducer interfaces supported	Argon Medical, ICU Medical, Edwards Lifesciences, and Utah Medical
Transducer measurement accuracy	Compatible Invasive pressure transducers used in the system shall have an accuracy specification of ±2% or ±2 mmHg, whichever is greater

Alarms

Alarm limits	User selectable upper and lower limits for systolic, diastolic, and mean pressures
Alarm limit range	-99 to 350 mmHg
Pulse rate alarm limits	User selectable upper and lower limits for invasive pressure pulse rate

Power specification

Consumption	425 mW maximum
Input voltage	5 VDC ±0.25 VDC
Input current	85 mA maximum

Environmental specifications

Operating conditions

Temperature	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5573 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

Physical specifications

Length	3.6 m or 1.8 m (11.8 or 5.9 ft)
Weight	<0.26 kg (0.57 lb)

Temperature

Number of channels	2
Parameters displayed	T1, T2
Measurement units	°C or °F
Measurement range	0°C to 45°C (32°F to 113°F)
Display resolution	0.1°C (0.1°F)
Test measurement cycle	Every minute

Temperature system measurement accuracy

CARESCAPE ONE system excluding temperature probes	18°C to 45°C (64°F to 113°F): ±0.1°C (±0.2°F), rated output range 0°C to less than 18°C (32°F to 64°F): ±0.2°C (±0.4°F), extended output range
Temperature probe instructions for use specify the probe accuracy	
With series 400 reusable temperature probes with ±0.1°C accuracy	18°C to 45°C (64°F to 113°F): ±0.2°C (±0.4°F)
With series 400 disposable temperature probes with ±0.2°C accuracy	18°C to 45°C (64°F to 113°F): ±0.3°C (±0.5°F)

Alarms

Alarm limit	User selectable upper and lower limits for T1, T2
Alarm limit range	10°C to 45°C (50°F to 113°F)
Alarm limit increment	0.1°C (0.18°F)
Delta temperature alarm limit	User selectable upper limit

Power specification

Consumption	325 mW maximum
Input voltage	5 VDC ±0.25 VDC
Input current	65 mA maximum

Environmental specifications

Operating conditions

Temperature	0°C to 40°C (32°F to 104°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 95% RH (non-condensing)
Altitude	-500 m (1075 hPa) to 5573 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

CO_2

Range	0-19.7%
Flow Rate	50 mL/min ±10 mL/min

Accuracy

After 2 minutes warm-up	0 and 40 mmHg (0 and 5,3 kPa): ±2.0 mmHg (±0.29 kPa). 41–70 mmHg (5.4–9.3 kPa): ±5% 71–100 mmHg (9.4–13.3 kPa) ±8% 101–150 mmHg (13.4–20 kPa): ±10%

At respiration rates above 80 rpm, all ranges are ±12% of reading. The specifications are valid for gas mixtures of CO_2, balance N2, dry gas at 760 mmHg (101.3 kPa) within specified operating temperature range.

Resolution

Numeric	1.0 mmHg (0.1 kPa)
Wave	0.1 mmHg (0.01 kPa)

awRR (airway respiratory rate)

Range	2-150 rpm
Accuracy	±1 rpm
Warm-up Time 2 minutes with CO_2 sensor attached for full accuracy specification	
Total System Response Time	3 seconds for on-airway adapter kits (Additional 30ms for sidestream sampling cannulas) (Additional 2 seconds for extension line and dehumidification tubing)
Total System Rise Time	200ms for on-airway adapter kits (Additional 30ms for sidestream sampling cannulas) (Additional 80 ms for extension line and dehumidification tubing)
CO_2 sweep speed options	0.625, 6.25, 12.5, 25, and 50 mm/s

Power specification

Consumption	3.75 W maximum
Input voltage	5 VDC ±0.25 VDC
Input current	750 mA maximum

Environmental specifications

Operating conditions

Temperature	0°C to 35°C (32°F to 95°F)
Humidity	5% to 90% RH (non-condensing)
Altitude	-350 m (1056 hPa) to 4000 m (616 hPa)

Storage conditions

Temperature	-30°C to 70°C (-22°F to 158°F)
Humidity	5% to 90% RH (non-condensing)
Altitude	-350 m (1056 hPa) to 5572 m (500 hPa)
Degree of enclosure protection against solid objects and water	IP47

CARESCAPE PARAMETERS standards compliance

ECG Standards Compliance

The system with CARESCAPE PARAMETER ECG complies with IEC 60601-2-27:2011-03.

The CARESCAPE PARAMETER ECG enclosure and USB interface cable, excluding the module interface connector and strain relief, and compatible lead wires and electrodes are type CF DEFIBRILLATION-PROOF APPLIED PARTs per IEC 60601-2-27 Clause 201.8.3 and Clause 201.8.5.5.

Pulse Oximetry Standards Compliance

The system with CARESCAPE PARAMETER Pulse Oximetry complies with ISO 80601-2-61:2011-04.

The CARESCAPE PARAMETER Pulse Oximetry sensor interface cable, excluding the module strain relief, and compatible sensors are type BF DEFIBRILLATION-PROOF APPLIED PARTs per IEC 60601-1:2012.

NIBP Standards Compliance

The system complies with IEC 80601-2-30:2013-07.

The system was clinically tested according to ISO 81060-2:2013.

The non-invasive blood pressure APPLIED PART within the compatible parameter measurement modules are classified as a DEFIBRILLATION PROOF TYPE BF per IEC 80601-2-30:2013 Clause 201.6 and 201.8.5.5.101.

Pressure Standards Compliance

The system with CARESCAPE PARAMETER Pressure complies with IEC 60601-2-34:2011-05.

CO_2 Standards Compliance

The system with CARESCAPE PARAMETER CO_2 LoFlo complies with ISO 80601-2-55:2011-12.

The CARESCAPE CO_2 accessories that are intended to be connected with the breathing system are TYPE BF DEFIBRILLATION-PROOF APPLIED PARTs per ISO 80601-2-55 Clause 201.4.6.

Temperature Standards Compliance

The system with CARESCAPE PARAMETER Temperature complies with ISO 80601-2-56:2009-10-01.

The CARESCAPE PARAMETER Temperature sensor interface cable, excluding the module interface connector and strain relief, and compatible probes are type CF DEFIBRILLATION-PROOF APPLIED PARTs per IEC 60601-1:2012.

Imagination at work

CARESCAPE ONE: MBZ101
CARESCAPE DOCK F0: MFA101
CARESCAPE ECG: MKE101
CARESCAPE Temperature: MKT101
CARESCAPE Invasive Pressure: MKP101
CARESCAPE SpO_2: MKS101, MKS102
CARESCAPE SpO_2 - Nellcor: MKN101
CARESCAPE SpO_2 - Masimo: MKM101
CARESCAPE CO_2 - LoFlo: MKC101

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CARESCAPE ONE is not available for sale in USA and has not been cleared by FDA.