

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 autorotating 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[™] SpO₂, Nellcor[™] Oximax[™] SpO₂, GE TruSignal[™] SpO₂, and Respironics[™] LoFlo CO₂.

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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CARESCAPE ONE monitor



Battery

| Туре | 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)Humidity5% to 95% RH (non-condensing)Altitude-500 m (1075 hPa) to 5573 m
(500 hPa)

IP41

Degree of enclosure protection against solid objects and water

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 |

Display

Display characteristics

| Size | 7 inch diagonal |
|-------------------|-----------------------------------|
| Туре | 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 | Invasive pressure and ECG analog outputs. |
| connector | 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 |

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 | IP41 |

protection against solid objects and water

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

 $\label{eq:carescape} \begin{array}{l} {\sf CARESCAPE} \ {\sf SpO}_2 \ - \ {\sf GE}, \ {\sf CARESCAPE} \ {\sf SpO}_2 \\ - \ {\sf Nellcor}, \ {\sf CARESCAPE} \ {\sf SpO}_2 \ - \ {\sf Masimo}, \ {\sf CARESCAPE} \ {\sf Invasive} \\ {\sf Pressure}, \ {\sf CARESCAPE} \ {\sf Temperature}, \ {\sf CARESCAPE} \ {\sf CO}_2 \ - \ {\sf LoFlo} \end{array}$

ECG

| Standard leads available | I, II, III, V1 to V6, aVR, aVL, and aVF | Signal gain accuracy |
|-----------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Leadsets supported | 3-, 5-, 6-, and 10-leadwire | Noise Sampling rate |
| Lead fail | Identifies failed electrodes and switches to those intact | Heart rate |
| Lead fail sensing current | Active patient electrode: 12.8 nA typical (each) Reference electrode < 150 nA maximum | The ECG heart rate i simulated step incre decrease of 80 to 40 Heart rate calculatio |
| Gain selections | 0.5x = 5 mm/mV 1x = 10 mm/mV | 60601-2-27 Clause 2 201.101, as follows |
| | 2x = 20 mm/mV 4x = 40 mm/mV | Ventricular bigeminy |
| Display bandwidth | | Slow alternating ventricular bigeminy |
| Diagnostic | 0.05 to 150 Hz | Rapid alternating ventricular bigeminy |
| Monitoring | 50 Hz powerline frequency: 0.05 to 32 Hz | Bidirectional systole |
| | 60 Hz powerline frequency: 0.05 to 40 Hz | Heart rate averaging computation |
| Moderate | 0.05 to 23 Hz | |
| Maximum | 4.5 to 27 Hz | |
| Differential offset voltage | ±0.4V | |
| Input impedance | | Display update inter |
| 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 μ V (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 |

| and a step berease of storad in less than 10 s. processed of storad processed of storad proces | 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. | Environmental specifications | |
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| PVC rate range0 to 300 PVCs/minuteHumidity5% to 95% RH (non-condensinglPVC rate resolutionFVC/minuteAtribude-500 m (1075 hPa) to 4000 m (615 hPa)Arrhythmia callsFul, lethal only, or no arrhythmiaTemperature-50° C to 70°C (-22°F to 158°F)Measurement descriptionST segment deviation is measured for all acquired leadsTemperature-50°C to 70°C (-22°F to 158°F)ST displayLead with the most deviationAttitude-500 m (1075 hPa) to 5573 m (500 hPa)ST numeric range-20.0 mm to 20.0 mmDegree of enclosure protection against solid objects and waterIP47ST numeric accuracy10.4 mm or 20%, whichever is greaterPhysical specification10 at 12.1 or 6.2 ft)Noter/under shoot0.1 ms to 2 msCast Note Stat Note St | | | Operating conditions | |
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| greaterPhysical specification:Pace detection/rejectionLength3.7 m or 1.9 m (12.1 or 6.2 ft)Input voltage range for pace detection and rejection± mV to ±700 mVWeight0.57 kg (1.26 lb), includes long 10 leadwire setInput voltage range for pace detection and rejection0.1 ms to 2 msImpedance respiration10 leadwire setOver/under shootOvershoot measured using Method A of AAMI EC13 4.1.4.2Rate range0 to 200 breaths/minuteHeart rate accuracy greater±1% or ±1 bpm, whichever is greaterRate resolution1 breath/minuteHeart rate resolution1 bpmWeifod A of AAMI EC13 4.1.4.2Leads availableI, II, and RL-LLHeart rate accuracy art rate sensitivity±0.5 mV peakRespiration sensing current<100 uA RMS | ST measurement | 16 beats averaging | | |
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| Heart rate limit alarmO to 300 beats/minuterangeAccuracy±1 breath/minute over the range of 0 to 120 breaths per minuteST limit alarmsUser selectable upper and lower limits for individual leads±3 breaths/minute over the range of 121 to 200 breaths per minutePVC limit alarmsUser selectable upper limit±3 breaths/minute over the range of 121 to 200 breaths per minuteSVC limit alarmsUser selectable upper limitCarrier frequency52.3 kHz ±5 HzArrhythmia alarmsLethal, fullAlarmsPower specification625 mW maximumAlarm limitUser-selectable upper and lower limitsInput voltage5 VDC ±0.25 VDCAlarm range4 to 120 breaths/minute | | | | |
| ST limit alarms User selectable upper and lower limits for individual leads of 0 to 120 breaths per minute PVC limit alarms User selectable upper limit ±3 breaths/minute over the range of 121 to 200 breaths per minute SVC limit alarms User selectable upper limit carrier frequency 52.3 kHz ±5 Hz Arrhythmia alarms Lethal, full Alarms Vser-selectable upper and lower minute Power specification 625 mW maximum Alarm limit User-selectable upper and lower minute Input voltage 5 VDC ±0.25 VDC Alarm range 4 to 120 breaths per minute | | 0 to 300 beats/minute | | _ |
| PVC limit alarmsUser selectable upper limitrange of 121 to 200 breaths per minuteSVC limit alarmsUser selectable upper limitCarrier frequency52.3 kHz ±5 HzArrhythmia alarmsLethal, fullImage of 121 to 200 breaths per selectable upper limitPower specificationLethal, fullImage of 121 to 200 breaths per selectable upper limitConsumption625 mW maximumAlarm limitUser-selectable upper and lower limitsInput voltage5 VDC ±0.25 VDCAlarm range4 to 120 breaths/minute | - | | Accuracy | of 0 to 120 breaths per minute |
| SVC limit alarms User selectable upper limi Carrier frequency 52.3 kHz ±5 Hz Arrhythmia alarms Lethal, full Alarms Power specification Alarm limit User-selectable upper and lower limits Consumption 625 mW maximum Alarm range 4 to 120 breaths/minute | PVC limit alarms | | | range of 121 to 200 breaths per |
| Arrhythmia alarms Lethal, full Alarms Power specification Alarm limit User-selectable upper and lower limits Consumption 625 mW maximum Alarm range 4 to 120 breaths/minute Input voltage 125 mA maximum Alarm range 4 to 120 breaths/minute | | | | |
| Power specification Alarms Consumption 625 mW maximum Alarm limit User-selectable upper and lower limits Input voltage 5 VDC ±0.25 VDC Alarm range 4 to 120 breaths/minute | | | Carrier frequency | 52.3 kHz ±5 Hz |
| Consumption 625 mW maximum Alarm limit User-selectable upper and lower limits Input voltage 5 VDC ±0.25 VDC Alarm range 4 to 120 breaths/minute | | Locialitati | Alarms | |
| Input voltage 5 VDC ±0.25 VDC Alarm range 4 to 120 breaths/minute | - | 62E mM maximum | Alarm limit | |
| | · | | | |
| Input current 125 mA maximum No Breath alarm range 3 to 30 seconds | | | Alarm range | 4 to 120 breaths/minute |
| | input current | 125 MA MAXIMUM | No Breath alarm range | 3 to 30 seconds |

| Pulse Oximetry | | Accuracy | |
|----------------------------------------------|-----------------------------------------------------------|----------------------|----------------------------------------------------------|
| SpO ₂ displayed saturation values | | Without motion | SpO ₂ (70% to 100%): ±2 Adult, ±3 Neonatal |
| 0 | , and Nellcor OxiMax pulse | | SpO ₂ (< 70%): Unspecified |
| Alarms | display functional saturation. | With motion | SpO ₂ (70% to 100%): ±3 Adult/ Neonatal |
| Alarm limits | User selectable upper and lower | | SpO ₂ (< 70%): Unspecified |
| | limits for SpO ₂ | Low perfusion | SpO ₂ (70% to 100%): ±2 Adult, |
| Alarm limit range | Upper limit 32 - 100% | | ±3 Neonatal |
| | Lower limit 30 - 100% | | SpO ₂ (< 70%): Unspecified |
| Alarm limit increment | 1% | Nellcor | |
| Pulse rate alarm limits | User selectable upper and lower | Range | SpO ₂ : 1 to 100% |
| | limits for SpO ₂ pulse rate | | Pulse rate: 20 to 300 bpm |
| Pulse rate alarm limit | 1 beat/minute | Accuracy | |
| increment | | With/without motion | SpO ₂ (70% to 100%): ±2 Adult/ Neonatal |
| Performance specifications | | | SpO ₂ (60% to 80%): ±3 Adult/ |
| Display resolution | 1 digit (% of SpO ₂) | | Neonatal |
| Peripheral pulse rate resolution | 1 bpm | | SpO ₂ (< 60%): Unspecified |
| Display update period | Less than 30s | Low perfusion | SpO ₂ (70% to 100%): ±3 Adult/ Neonatal |
| Sweep speed options | 6.25, 12.5, 25, and 50 mm/s | | SpO ₂ (< 70%): Unspecified |
| Waveform scale options | GE TruSignal: AUTO, 50, 20, 10, 5, 2 | Peripheral pulse rat | te |
| | Masimo and Nellcor: 1x, 2x, 4x, and 8x | TruSignal | |
| Parameters monitored | Arterial oxygen saturation | Low perfusion range | 0.03 - 20% |
| | (SpO_2) and pulse rate | Accuracy | |
| TruSignal | | Without motion | 30 to 250 bpm ±2 Adult/ Pediatric/Neonatal |
| Range | SpO ₂ : 0 to 100% Pulse rate: 30 to 300 bpm | With motion | 30 to 250 bpm ±5 Adult/ Pediatric/Neonatal |
| Accuracy | | Low perfusion | 30 to 250 bpm ±3 Adult/ |
| Without motion | SpO ₂ (70% to 100%): ±2 Adult/ | | Pediatric/Neonatal |

.

Low perfusion

With motion

Masimo¹

RangeSpO2: 0 to 100%Pulse Rate: 25 to 240 bpm

Pediatric, ±3 Neonatal

Pediatric/Neonatal

SpO₂ (<70%): Unspecified

SpO₂ (<70%): Unspecified

SpO₂ (< 70%): Unspecified

Pediatric, ±3 Neonatal

SpO₂ (70% to 100%): ±3 Adult/

SpO₂ (70% to 100%): ±2 Adult/

¹ Masimo rainbow SET technology performance

Masimo¹

Accuracy

Low perfusion range

Without motion

With motion

Low perfusion

0.02 - 20%

25 to 240 bpm ±3 Adult/ Pediatric/Neonatal

20 to 240 bpm ±3 Adult/

25 to 240 bpm ±3 Adult/

Pediatric/Neonatal

Pediatric/Neonatal

| Nellcor | | Masimo ¹ | | |
|-------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------|------------------------------------------|--|
| Low perfusion range | 0.03 - 20% | Operating conditions | | |
| Accuracy | | Temperature | 0°C to 35°C (32°F to 95°F) | |
| Without motion | 20 to 250 bpm ±3 Adult/ | Humidity | 5% to 95% RH (non-condensing) | |
| | Neonatal | Altitude | -500 m (1075 hPa) to | |
| With motion | 20 to 250 bpm ±5 Adult/ Pediatric/Neonatal | | 4000 m (616 hPa) | |
| Low perfusion | 20 to 250 bpm ±3 Adult/Neonate | Storage conditions | | |
| | | Temperature | -30°C to 70°C (-22°F to 158°F) | |
| Power specification | | Humidity | 5% to 95% RH (non-condensing) | |
| TruSignal | | Altitude | -500 m (1075 hPa) to 5572 m (500 hPa) | |
| Consumption | 375 mW maximum | Degree of enclosure | IP47 | |
| Input voltage | 5 VDC ±0.25 VDC | protection against solid objects and water | | |
| Input current | 75 mA maximum | objects and water | | |
| Masimo | | Nellcor | | |
| Consumption | 2.15 W maximum | Operating conditions | | |
| Input voltage | 5 VDC ±0.25 VDC | Temperature | 0°C to 35°C (32°F to 95°F) | |
| Input current | 430 mA maximum | Humidity | 5% to 95% RH (non-condensing) | |
| Nellcor | | Altitude | -500 m (1075 hPa) to 4000 m (616 hPa) | |
| Consumption | 350 mW maximum | Storage conditions | | |
| Input voltage | 5 VDC ±0.25 VDC | Temperature | -40°C to 70°C (-40°F to 158°F) | |
| Input current | | Humidity | 5% to 95% RH (non-condensing) | |
| Environmental speci | fications | Altitude | -500 m (1075 hPa) to 5572 m (500 hPa) | |
| TruSignal | | Degree of enclosure | IP47 | |
| Operating conditions | | protection against solid objects and water | | |
| | 0°C to 40°C (32°F to 104°F) | | | |
| Temperature Humidity | | Physical specificatio | ns | |
| Altitude | 5% to 95% RH (non-condensing) -500 m (1075 hPa) to 4000 m | TruSignal | | |
| Altitude | (616 hPa) | Length | 3.0 m or 1.8 m (9.8 or 5.9 ft) | |
| Storage conditions | | Weight | <0.17 kg (0.38 lb) | |
| Temperature | -30°C to 70°C (-22°F to 158°F) | | | |
| Humidity | 5% to 95% RH (non-condensing) | Masimo ¹ | 10 m m 10 m (C 2 m 7 7 ft) | |
| Altitude | -500 m (1075 hPa) to 5573 m | Length | 1.9 m or 1.0 m (6.2 or 3.3 ft) | |
| | (500 hPa) | Weight | <0.33 kg (0.82 lb) | |
| Degree of enclosure protection against solid | IP47 | Nellcor | | |
| objects and water | | 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

Cuff sizes

| | | 0411 01200 | | |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------|------------------------------------------------------------------------|--|
| Performance specifications Measurement technique Oscillometric | | Disposable | Large adult, adult, small adult, pediatric, child, and neonatal | |
| | | Reusable | Adult thigh, large adult, adult, | |
| Displayed parameters Systolic, diastolic, and mean pressures, time of last measurement, and cuff pressure | | small adult, small adult/child, child, and infant | | |
| Modes | Manual, Auto and Stat | Maximum inflation pres | sures | |
| Total cycle time | 20 to 40 seconds typical | Adult | 290 ±6 mmHg (38.7 ±0.8 kPa) | |
| | (Dependent on heart rate, | Child | 250 ±5 mmHg (33.3 ±0.7 kPa) | |
| | pressure, and motion artifact) | Infant | 145 ±5 mmHg (19.3 ±0.7 kPa) | |
| Measurement range | | Automatic cycle times | | |
| Adult | 15 to 300 mmHg (2.0 to 40.0 kPa) | · | in, 4 min, 5 min, 10 min, 15 min, 20 | |
| Child | | min, 30 min, 1 h, 2 h and 4 h | | |
| Child | 15 to 260 mmHg (2.0 to 34.7 kPa) | Default NIBP measurem | ent initial inflation pressures | |
| Infant | 15 to 155 mmHg | Adult | 135 mmHg (18.0 kPa) | |
| | (2.0 to 20.7 kPa) | Child | 125 mmHg (16.7 kPa) | |
| NIBP pressure display ra | ange | Infant | 100 mmHg (13.3 kPa) | |
| Adult | 15 to 300 mmHg (2.0 to 40.0 kPa) | Alarms | | |
| Child | 15 to 260 mmHg (2.0 to 34.7 kPa) | NIBP limit alarms | User selectable upper and lower limits for systolic, diastolic, and | |
| Infant | 15 to 155 mmHg (2.0 to 20.7 kPa) | | mean pressures | |
| 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 | Power off | | | |
| conditions | 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 | | | |

| Invasive Pressure | | Transducer interfaces | Argon Medical, ICU Medical, |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Performance Specifications | | supported | Edwards Lifesciences, and Utah Medical |
| Number of channels Transducer sites, site name, and displayed values | 2 Arterial (ART) Systolic, diastolic, mean and rate | Transducer measurement accuracy | Compatible Invasive pressure transducers used in the system shall have an accuracy specification of ±2% or ±2 |
| values | Femoral (FEM) Systolic, diastolic, mean and rate | | mmHg, whichever is greater |
| | Femoral Vein (FEMV) Mean | Alarms | |
| | Pulmonary artery (PA) Systolic, diastolic, mean | Alarm limits | User selectable upper and lower limits for systolic, diastolic, and |
| | Central venous pressure (CVP) Mean | | mean pressures |
| | Intra-cranial pressure (ICP) Mean | Alarm limit range | -99 to 350 mmHg |
| | Left atrial (LAP) Mean Right atrial (RAP) Mean | Pulse rate alarm limits | User selectable upper and lower limits for invasive pressure pulse |
| | Right vein (RVP) Mean | | rate |
| | Umbilical artery (UAC) Systolic, diastolic, mean, and rate | Power specification | |
| | Umbilical vein (UVC) Mean | Consumption | 425 mW maximum |
| Dango | | Input voltage | 5 VDC ±0.25 VDC |
| Range | -98 mmHg to 349 mmHg (-13.1 to 46.5 kPa) | Input current | 85 mA maximum |
| Resolution | 1 mmHg | Environmental speci | fications |
| Displayed frequency response | 0 to 12 Hz or 0 to 40 Hz (-3dB) user-selectable | Operating conditions | |
| Zero balance accuracy | ±1 mmHg (±0.1 kPa) | Temperature | 0°C to 40°C (32°F to 104°F) |
| Measurement accuracy | ±0.5% ±1.50 mmHg (excluding transducer) | Humidity | 5% to 95% RH (non-condensing) |
| | ±4% or ±4 mmHg, which ever is greater (including transducer) | Altitude | -500 m (1075 hPa) to 4000 m (616 hPa) |
| Pulse rate accuracy | ±2% or ±2 bpm, whichever is | Storage conditions | |
| | greater | Temperature | -30°C to 70°C (-22°F to 158°F) |
| Units | mmHg or kPa | Humidity | 5% to 95% RH (non-condensing) |
| Sweep speed options | 6.25, 12.5, 25, and 50 mm/s | Altitude | -500 m (1075 hPa) to 5573 m |
| Pulse rate range | 0 to 360 bpm | | (500 hPa) |
| Pulse rate resolution | 1 bpm | Degree of enclosure protection against solid | IP47 |
| Waveform display scale | User and automatic | objects and water | |
| Display scale selections | 0-10, to 0-300 mmHg, with a step size of 10 mmHg | Physical specificatio | ns |
| | (0.0-2.0, to 0.0-40.0 kPa, with a | Length | 3.6 m or 1.8 m (11.8 or 5.9 ft) |
| | step size of 2.0 kPa); or automatic scale based on valid waveform values from last 4 seconds with | Weight | <0.26 kg (0.57 lb) |

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)

Temperature

Storage conditions

| Number of channels | 2 | Temperature | -30°C to 70°C (-22°F to 158°F) |
|------------------------|-----------------------------|-------------------------------------------------|--------------------------------|
| Parameters displayed | Τ1, Τ2 | Humidity | 5% to 95% RH (non-condensing) |
| Measurement units | °C or °F | Altitude | -500 m (1075 hPa) to 5573 m |
| Measurement range | 0°C to 45°C (32°F to 113°F) | | (500 hPa) |
| Display resolution | 0.1°C (0.1°F) | Degree of enclosure protection against solid | IP47 |
| Test measurement cycle | Every minute | objects and water | |

Temperature system measurement accuracy

| CARESCAPE ONE system excluding temperature | 18°C to 45°C (64°F to 113°F): $\pm 0.1°$ C ($\pm 0.2°$ F), rated output range |
|--------------------------------------------|-------------------------------------------------------------------------------------|
| probes | 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
 18°C to 45°C (64°F to 113°F):

 reusable temperature
 ±0.2°C (±0.4°F)
 probes with ±0.1°C accuracy

With series 400 disposable temperature ±0.3°C (±0.5°F) probes with ±0.2°C accuracy

18°C to 45°C (64°F to 113°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) |

| C | | |
|---|---|---|
| L | U | 2 |

Environmental specifications

| Range | 0-19.7% | Operating conditions | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------|------------------------------------------|
| Flow Rate | 50 mL/min ±10 mL/min | Temperature | 0°C to 35°C (32°F to 95°F) |
| Accuracy | | Humidity | 5% to 90% RH (non-condensing) |
| After 2 minutes warm-up | 0 and 40 mmHg (0 and 5,3 kPa): ±2.0 mmHg (±0.29 kPa). | Altitude | -350 m (1056 hPa) to 4000 m (616 hPa) |
| | 41–70 mmHg (5.4–9.3 kPa): ±5% | Storage conditions | |
| 71–100 mmHg (9.4–13.3 kPa) ±8% | Temperature | -30°C to 70°C (-22°F to 158°F) | |
| | 101–150 mmHg (13.4–20 kPa): ±10% | Humidity | 5% to 90% RH (non-condensing) |
| 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 | | Altitude | -350 m (1056 hPa) to 5572 m (500 hPa) |
| | | Degree of enclosure protection against solid | IP47 |
| | | objects and water | |

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 |



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.

CO₂ Standards Compliance

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

The CARESCAPE CO₂ 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

Product may not be available in all countries and regions. Full product technical specification is available upon request. Contact a GE Healthcare Representative for more information. Please visit www.gehealthcare.com/promotional-locations.

Data subject to change.

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CARESCAPE ONE: MBZ101 CARESCAPE DOCK F0: MFA101 CARESCAPE ECG: MKE101 CARESCAPE Temperature: MKT101 CARESCAPE Invasive Pressure: MKP101 CARESCAPE SpO₂: MKS101, MKS102 CARESCAPE SpO₂ - Nellcor: MKN101 CARESCAPE SpO₂ - Masimo: MKM101 CARESCAPE CO₂ - LoFlo: MKC101

DOC1959489 Rev. 2 5/18

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