DRE Trax

Vital Signs / $ETCO_2$ Monitor

Versatile, intuitive, touch-screen patient vital signs monitor

The DRE Trax is ideal for bedside measurement in low-acuity post-anesthetic care, sleep studies, and patient transport, and is applicable in many other care areas.

Non-proprietary sample lines allow the Trax to be the industry's lowest cost-per-patient end-tidal CO_2 monitor. The capnography system is a cutting-edge, low-flow end-tidal CO_2 measuring system. It uses a 50-ml-per-minute sidestream method to deliver the most accurate $EtCO_2$ readings. It can be used on both intubated and non-intubated patients. The sample line connection system uses filter cells to eliminate the potential of cross contamination.

FEATURES

- Can be configured to measure any combination of non-invasive blood pressure, SpO_2, rapid temperature, and capnography ($EtCO_2$)
- Can also be used with only $EtCO_2$ as a standalone capnograph for specialized clinical applications
- All patient data can be transmitted through Trax's many network options
- Portable; weighs less than 3 lbs
- 72-hour trending
- Simplified patient information entry
- Long life lithium ion battery
- Optional $EtCO_2$
- Wall Mount and mobile mounting solutions availiable

SPECIFICATIONS

Weight: < 3 lbs

Height:
7.7”

Width:
4.7”

Depth:
4.9”

LCD Display:
5” (diagonal)

Power Source:
External AC power or internal battery

AC Power:
100 ~ 240VAC, 50/60Hz, 150VA

Battery:
Built-in and lithium Ion rechargeable, 12.6V/5Ah

Charge Time:
8 hours

Operating Time:
3 hours

523-2019-06-26

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Avante Medical Surgical

SpO_2

$ASpO_2$: Anti-motion SpO_2

SpO_2% Range: 0 ~ 100%

SpO_2 Accuracy:

±2% (70 ~ 100%, non-motion)

±3% (70 ~ 100%, motion)

Pulse Rate Range: 30-250 bpm

Pulse Rate Accuracy:

±2 bpm (non-motion)

±3 bpm (motion)

Alarm Upper-lower Limit:

Upper Limit: 70 ~ 100%

Lower Limit: 70 ~ 100%

SpO_2 Probe:

Red light LED wavelength: 660nm±5nm

Infrared light LED wavelength: 940nm±10nm

Standards:
Meets performance standards of EN ISO 9919:2005

Networking

Wired Networking:

Industry standard 802.11b/g wired network

Frequency Range:

2.412 ~ 2.484 GHz

Connected bedside number:

Up to 16 bedside monitors

Wireless Networking:

Up to 100m indoors
Industry standard 802.11b/g wireless

Supports TCP/IP and UDP/IP Protocols

Performance

Trace: 2 waveforms

Waveforms: PLETH, $ETCO_2$

Trend time: From 1 to 72 hours

Indicator:

Alarm Indicator
Power indicator
Pulse beep and alarm sound

Non-Invasive Blood Pressure (NIBP)

Method: Automatic oscillometric

Cuff Inflating: <30s
(0 ~ 300 mmH, standard adult cuff)

Measuring Period: AVE<40s

Mode: Manual, Auto, STAT

Measuring Interval in AUTO Mode: 2 min ~ 4 hrs

Pulse Rate Range:
30 bpm ~ 250 bpm

Measuring Range:

SYS: 40 ~ 250(mmHg)
DIA: 15 ~ 200(mmHg)

Resolution: 1mmHg

Pressure Accuracy:
Maximum Mean error: ±5mmHg

Maximum Standard Deviation: 8mmHg

Overpressure Protection:
280(mmHg)

Alarm Limit:

SYS: 50 ~ 240 mmHg
DIA: 15 ~ 180 mmHg

Standards:
Meets performance standards of ANSI/AAMI SP10:2002

$EtCO_2$ (Option)

Mode of Sampling:
Sidestream or Mainstream

Principle of Operation:
Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.

CO_2 measurement Range:
0 to 150 mmHg
(0 to 19.7%, 0 to 20 kPa)

CO_2 Calculation Method:
BTPS (Body Temperature Pressure Saturated)

CO_2 Resolution:
0.1mmHg (0-69mmHg),
0.25mmHg (70-150mmHg)

CO_2 Accuracy:
0~40 mmHg ± 2 mmHg,
41~70 mmHg ± 5% of reading,
71~100 mmHg ± 8% of reading,
101~150 mmHg ± 10% of reading,
Above 80 breath per minute
± 12% of reading

Sampling rate: 100Hz

Respiration Rate: 2 ~ 150 bpm

Respiration Rate accuracy:
±1 breath

Respiration Rate:
<3 seconds - includes transport time and rise time

Inspired CO_2 measurement Range: 3 ~ 50 mmHg

Standards:
Meets performance standards of ISO/FDIS 21647:2004 (E), ASTM F1456-01, IEC/CDV 60601-2-55

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