

The DRE Trax is a versatile, intuitive patient vital signs monitor that can be configured to measure any combination of non-invasive blood pressure, SpO2, rapid temperature, and capnography (EtCO2). The Trax simplifies clinician use by incorporating a touchscreen with a simple user interface.

The 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. The Trax can be configured as a basic continuous pulse oximeter or a blood pressure pulse oximeter combo. EtCO2 can also be added as a 3rd parameter. The Trax can be used with only EtCO2 as a standalone capnograph for specialized clinical applications.

Non-proprietary sample lines allow the Trax to be the industry's lowest cost-per-patient end-tidal CO2 monitor. The capnography system is a cutting-edge, low-flow end-tidal CO2 measuring system. It uses a 50-ml-per-minute sidestream method to deliver the most accurate EtCO2 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:

- Portable; weighs less than 3 lbs
- All patient data can be transmitted through Trax's many network options
- 72-hour trending
- Simplified patient information entry
- Long life lithium ion battery
- Optional EtCO2
- Wall Mount and mobile mounting solutions available



Technical Specifications:

- Display: 5.0 inch (Diagonal) color TFT
- Resolution: 800 × 3(RGB) × 480
- Trace: 2 waveforms
- Waveforms: PLETH, ETCO2
- Indicator:
- Alarm Indicator
- Power indicator
- Pulse beep and alarm sound
- Trend time: From 1 to 72 hours

NIBP

- Measuring Technology: Automatic oscillating measurement
- Cuff Inflating: <30s (0 ~ 300 mmHg, 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: Adult/Pediatric Mode
- SYS: 40 ~ 250 (mmHg)
- DIA: 15 ~ 200 (mmHg)
- Neonatal Mode
- SYS: 40 ~ 135 (mmHg)
- DIA: 15 ~ 100 (mmHg)
- Resolution: 1mmHg
- Pressure Accuracy: Maximum Mean error: ±5mmHg
- Maximum Standard deviation: 8mmHg
- Overpressure Protection: Adult Mode: 280(mmHg)
- Neonatal Mode: 150 (mmHg)
- Alarm Limit: SYS: 50 ~ 240 mmHg
- DIA: 15 ~ 180 mmHg
- Standards: Meets performance standards of ANSI/AAMI SP10:2002

SPO2

- ASpO2: Anti-motion SpO2
- SpO2% Range: 0 ~ 100%
- SpO2 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%
- SpO2 Probe: Red light LED wavelength: 660nm±5nm
- Infrared light LED wavelength: 940nm±10nm
- Standards: Meets performance standards of EN ISO 9919:2005

Rapid Temperature (Option)

- Temperature Measurement Range: 30°C to 43°C (86°F to 109°F)
- Typical Measurement Times
- Oral (Quick Mode): 3-5 seconds (non-fever temps), 8-10 seconds (fever temps):
- (after insertion into measurement site):
- Oral (Standard Mode): 6-10 seconds
- Axillary Mode: 8-12 seconds
- Rectal Mode: 10-14 seconds
- Direct Mode (All Sites): 60-120 seconds
- Pulse Timer: 60 Second count with a "beep" at 15 seconds, 2 "beeps" at 30 seconds, 1 "beep" at 45 seconds, and 2 "beeps" at 60 seconds
- Patient Accuracy: A Standard Prediction Mode reading and a Direct Mode reading will differ by less than ±0.2°C (±0.4°F) on 98% of tested patients
- Batteries:
- Four "AA" Required.
- Standard IEC package size.
- Alkaline --1.5 Volt
- Approx. 6000 temperature readings
- Standards: Meets performance standards of EN 12470-3:2000, ASTM E1112:2006

EtCO2 (Option)

- Mode of Sampling: Sidestream or Mainstream
- Principle of Operation: Non-dispersive infrared (NDIR) single beam optics, dual wavelength, no moving parts.
- CO2 measurement Range: 0 to 150 mmHg (0 to 19.7%, 0 to 20 kPa)
- CO2 Calculation Method: BTPS (Body Temperature Pressure Saturated)
- CO2 Resolution: 0.1mmHg (0-69mmHg), 0.25mmHg (70-150mmHg)
- CO2 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
- Response Time: <3 seconds -
- includes transport time and rise time
- Inspired CO2 measurement Range: 3 ~ 50 mmHg
- Standards: Meets performance standards of ISO/FDIS 21647:2004 (E), ASTM F1456-01, IEC/CDV 60601-2-55

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

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

Environmental Specifications

- Temperature: Operating: 5 ~ 40 °C
- Storage: -10 ~ 45 °C
- Humidity Range: Operating: ≤80 %
- Storage: ≤80 %

Fuse

- 3.15A/250V

Lcd Specifications

- Display Type: TFT color LCD
- Size (diagonal): 5.0 inch
- Active Area: 152.4 (W) × 91.44 (H) mm
- Color arrangement: RGB-stripe
- Dot pitch: 0.0635(W) × 0.1905(H) mm
- Display Mode: Normally white, Transmissive
- Interface: Digital (TTL)
- Surface Treatment: Anti-Glare
- TOUCHSCREEN SPECIFICATIONS
- Type: Four-Wire Analog Resistive Touch Panel
- Input Mode: Stylus Pen or Finger
- Connector: FPC
- Insulation resistance: 25MΩ
- Voltage: 7VDC
- Chattering: 10ms
- Transparency: 80%
- Surface hardness: 3H
- Durability-surface scratching: Write 100,000
- Active force: 80gf
- Knock Test: 1,000,000 times