Kingst® Sidestream or Mainstream **Capno-H+** Capnograph and Oximeter

Features of Capno-H+ Capnograph and Oximeter

- *3.5 inch TFT, monitoring the EtCO2/CO2 , Respiration rate,SpO2 and Pulse (optional).*
- *Kingst's EtCO2 technology of infrared ray gas analysis*
  - *Temperature, Pressure compensation system and Zero readjustment system, all of them insure the accuracy and stability*
  - *Balance gas compensation makes minimum influence against other gases.*
  - *Lung pressure and temperature compensation (BTPS compensation) is selectable*
  - *Pump flux is selectable for adult and infant*
- *KPA , mmHg or % are selectable.*
- *Special designed water filter can be selectable, keeping work under the heavy humid environment, also suitable for an intubated or non-inbutared patients.*
- *Audio-optical alarm for exceeding limits and Apnea*
- *24 hours trend diagram keeps still available after power-off*
- *Data output via USB port,*
- *Optioanl data base software administration analysis and printing data*
- *Optional bluetooth module and bluetooth printer, at any time to print wave shape and data*
- *Large Capacity lithium battery for 10 hours UPS*
- *Nellcor or our Digital SpO2 and adult, pediatric or neonate.*
- *The Analog Output Module is convenient to connect with to all kinds of multi-lead sleep monitors*
- *Easy to connect and fix with anesthetic machine*

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Technical specifications

Power

AC input:

100V-250V, 50Hz/60 Hz

AC power Consumption:

10W

Operation

Working temperature:

5 -40°C

Humidity:

30 -75% (non-condensing)

Atmospheric pressure:

86-106kPa

Battery Data

Lithium battery, rechargeable

Battery capacity:

3.6V,3800mAh, 15 hours (approximately)

Charging time:

4 hours from empty to full

Physical Data

Dimension:

Sidestream:72mm(W)x155mm(H) x38mm(D)

Mainstream:72mm(W)x155mm(H) x28mm(D)

Weight:

Sidestream: 380 grams

Mainstream: Mainstream sensor <90g. Monitor 250g

Capnograph Measuring Data

EtCO2/CO2

Range: 0-150mmHg（ 0-20kPa,or 0-20%（V/V))

Accuracy:

±2mmHg when 0-40mmHg,

±5%(reading) when > 41-70mmHg

±8%(reading) when > 71-100mmHg

±10%(reading) when > 101-150mmHg

EtCO2 Update: every breath,10sec,20sec or 30sec selectable

Trend length:

24hours

Respiration rate

Range: 3 -150 t/min

Accuracy: the bigger value of ±1%(reading) or ±1times/min

Trend length: 24 hours

Flux : 50-250cc/min selectable

Oximeter Data (optional)

Oximetry Saturation

Range: 0-100%

Accuracy:

±3% when 50-69%

±2% when 70-100%

Trend length: 24hours

Pulse Rate

Range:

30-250 bpm

Accuracy:

the bigger value of ±2bpm or ±2%(reading) when 30-250bpm

Trend length:

24hours

No futher notification if some technical specification change.Please take update technical specification or test result as the stardand

Clinic significance of EtCO2 monitoring

Adaptation diseases:

1. Safe application for anesthetic machines and ventilators. 2. Insufficiency of all kinds of respiration. 3. Cardio-pulmonary resuscitation. 4. Serious shock . 5. Cardiac failure and infarct. 6. Locating intubated catheter in general anesthetic trachea.

When ventilator and anesthesia are being applied, to use EtCO2 measurement to adjust ventilating volume so as to keep EtCO2 concentration level as same as that before operation. Monitoring EtCO2 wave shape can determine if intubated catheter is in trachea. Referring patient using ventilator, if leaked, twisted or blocked of catheter happen, EtCO2 will immediately alarm both audibly and optically and alert doctor to deal with. Continuous monitoring ensures safely remove ventilator and anesthetic machine. When malignant high barometric temperature, body temperature increasing and large injecting NaHCO3 etc. can increase CO2, EtCO2, wave gain and meanwhile can lead to shock, cardiac arrest, pulmonary embolism and thrombus infarct, pulmonary blood flow decreasing can bring EtCO2 concentration down to zero. EtCO2 can help judge availability of cardio-pulmonary resuscitation. Ultralow EtCO2 needs to exclude the factors of overventilation etc.

Besides, EtCO2 curve is directviewing and shortcut, index both for pulmonary ventilation and circulatory function. EtCO2 is one of most important monitoring index for anesthetic and critically-ill patients.

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