呼气末CO2传感器

Sidestream CO2 Module

Mainstream CO2 Sensor

Product Introduction
产品介绍

MED‑LINKET's ETCO2 module is the ideal capnography solution. It is plug‑in and play.The sensor Features advanced technology for measuring instaneous CO2 concentration, respiration rate, end‑tidal CO2 concentration, inspired CO2 concentration. It resist the vapour better with patented technology, make the measured result more accurate.

美的连ETCO2探头是临床监测呼吸二氧化碳的完美解决方案，该产品即插即测，采用先进的非分光红外技术，可以测量被测对象的瞬时CO2浓度，呼吸率，呼气末CO2值，吸入CO2浓度。采用专利除水技术，更好的减小水汽干扰，使测量结果更精准。

Application Field
应用场合

- Monitoring the patient's respiratory status
  监测患者的呼吸状况

- Assists in determining when to intubate or extubate
  帮助医生判断何时通上呼吸机，何时撤离呼吸机

- Verification of ET tube placement
  检验确认ET管位置是否放置正确

- Alerts if accidental extubation occurs
  当发生意外拔管时可以及时报警

- Venti lator disconnect detection
  帮助确认呼吸机通气环路意外脱落

- Verification of venti lation during transport
  在患者转移过程中及时确认呼吸通路是否正常

Technical Specifications

性能指标

Transducer Type 传感器类型	Sidestream CO2 module(UN—E800) and Mainstream CO2 sensor(UN—E900) UN-E800 旁流呼气末CO2模块，UN-E900 主流呼气末CO2探头
Principle of Operation 测量原理	Non—dispersive infrared (NDIR) 非分光红外技术，测量反应速度快
Initialization Time 初始化时间	Capnogram displayed in less than 20 seconds. 上电20秒内即会显示测量波形 Reaching full specifications within 2 minutes. 上电2分钟内达到最好精度
Co2 Measure Range CO2 测量量程	0-150mmHg, 0-19.7%, 0-20kPa
Co2 Resolution Measure CO2测量分辨率	0.1mmHg
Co2 Accuracy CO2 测量精度	0 - 40 mmHg ±2 mmHg 41 - 70 mmHg ±5% of reading 71 - 100 mmHg ±8% of reading 101 - 150 mmHg ±10% of reading
Respiratory Rate 呼吸率	Range测量范围 3-150 BPM Accuracy测量精度 ±1 breath
Calibration 校准要求	No routine user calibration required, The mainstream sensor an airway adapter zero is required when changing to a different airway adapter 不需要用户频繁校准。对于主流CO2探头，更换适配器后需要进行一次校零操作。
Compensation 补偿参数	Barometer Pressure 450—850 mmHg. Operator selectable O2, N2O,He compensation. 压力补偿范围：450-850mmHg，可选择的O2，N2O，He气体补偿。
Power Requirements 电源要求	5.0 VDC ±5%, power consumption less than 1.3W typical
Temperature / Humidity 温度与湿度要求	Operating:0℃ to 40℃, 10 to 90% RH 工作环境：温度要求0-40℃，湿度要求10%-90% RH Storage:—40℃ to 70℃, <90% RH 存储环境：温度要求-40℃-70℃，湿度要求<90% RH
Data Interface 数据接口	Rs232, 19200 baud rate, standard N—8—1. Fully compatible with Respironics CO2 module's communication protocol. 兼容伟康8PIN LEMO接口及其软件通信协议。
Regulatory 标准	Designed to comply YY0601 and ISO21647. 所有测量值的精度符合YY0601和ISO21647的要求。