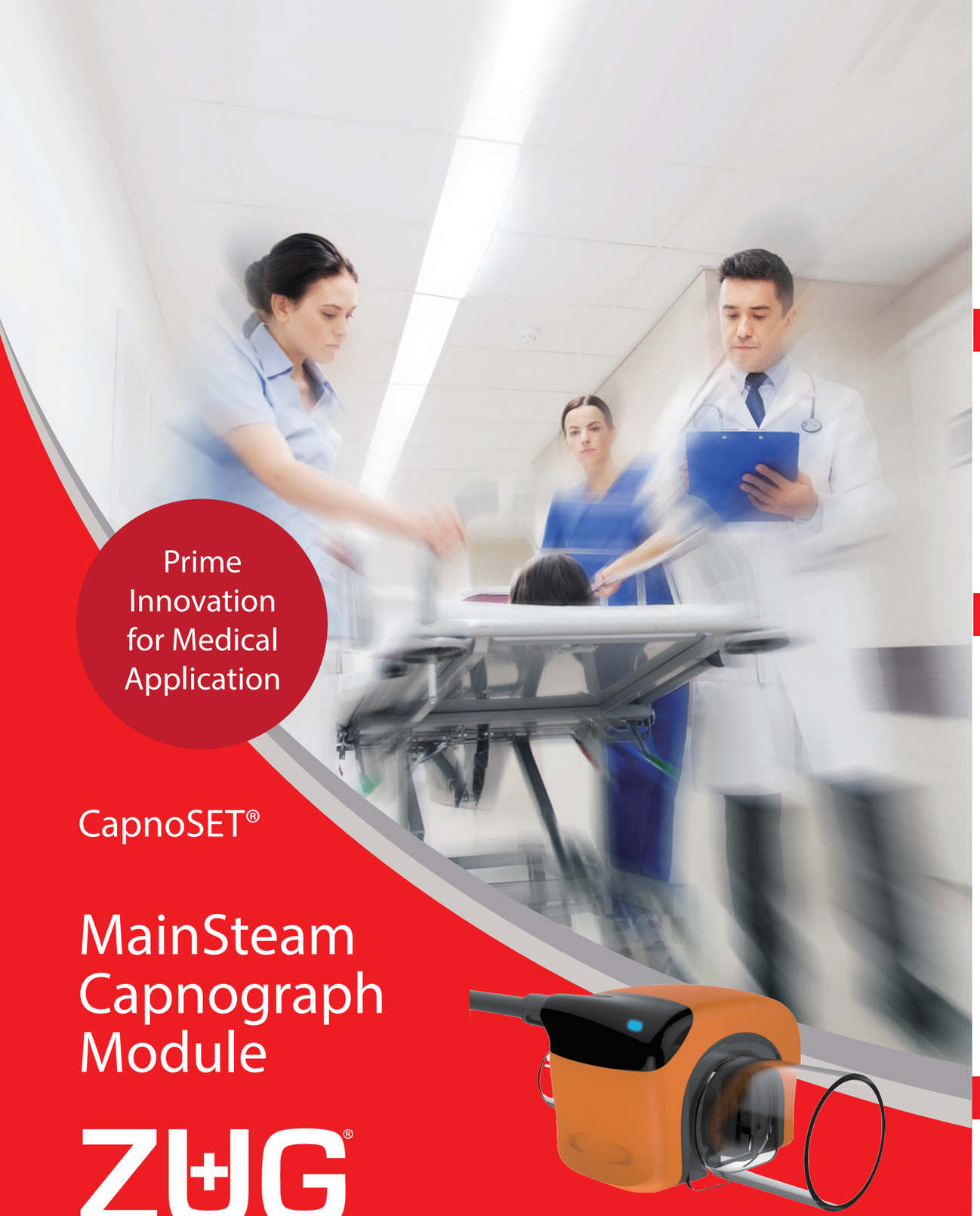


Prime Innovation for Medical Application

CapnoSET®

MainSteam Capnograph Module

ZUG MEDICAL SYSTEMS

Overview

Easy to integrate, our capnography technology is available in inexpensive and reliable mainstream or sidestream versions for manufacturers of patient monitors, anesthesia machines and ventilators.

CapnoSET is an excellent plug and play alternative module for your CO2 gas analysis needs.

Features

- Real-time and continuous measurement of EtCO2, InsCO2, Respiratory Rate
- Supports monitoring patients with high respiration rates, up to 150 rpm
- Sensitive CO_2 detection, can detect minimum 0.1 vol% CO_2 change
- High accuracy of Mainstream CO_2 measurement
- Sensor software and Hardware status
- Short rise-up time (< 90ms)
- Capnogram data
- Wide range of gas measurement(0-20%)
- Compact and lightweight design (less than 35grs)
- Plug and play, easy to integrate for OEM manufacturers.
- Smart temperature control algorithm to prevent water condensation
- Simple interfacing with RS232 serial interface, output on DB9 connector
- Automatic barometric pressure, temperature and anaesthetic gases compensation

Specifications

General

Principal of Operation: Non-dispersive Infrared (NDIR) single beam optics, dual wavelenght, no moving parts.
Mechanical Robustness: Compliant with the requirements of ISO 80601-2-55:2011 (Shock and Vibration).
Weight: ≤ 35g
Dimension : 43 x 32 x 26 mm
Power Supply : 5V DC ±5%
Warm-up Power Consumption : ≤ 2.5W
Typical Power Consumption: ≤ 1.5W
Interface: RS-232 serial interface at 19200bps, Connection via DB9 connector.

Environment

Operating Temperature : 10°C ~ 40 °C (50°F ~ 104°F)
Storage Temperature : -20°C ~ 70°C (4°F ~ 158°F)
Humity : 15% ~ 95%, non condensing
Pressure : 400 ~ 1200 hPa

Performances

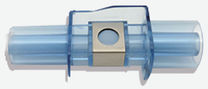
Measurements: EtCO2, InsCO2, RR and real-time CO_2
Automatic Compensation: Atmospheric pressure, temperature and anesthetic gases.
Warm-up Time: about 30s
Rise Time: ≤ 90ms
Sample Frequency: 25Hz
Total System Response Time: ≤ 1s
Measurements:
• CO_2 Range 0 ~ 20 vol%
• CO_2 Resolution 0.1 vol%
• CO_2 Accuracy:
0 ~ 12%: ±(0.2vol%+2% of reading)
12 ~ 20%: ±(0.2vol%+6% of reading)
AwRR Range : 0 ~ 150rpm
AwRR Resolution : 1rpm
AwRR Accuracy: 0 ~ 70rpm, ±2rpm, otherwise undetermined.
Breath Detection: Adaptive threshhold, minimum 1 vol% change in CO_2 concentration.

Airway Adapters

For Adults & Pediatric
Less than 5ml deadspace
ET Tubes>4.0mm
Disposable.

Part # SGMC-DA

For Neonate
Less than 1ml deadspace.
ET Tubes≤ 4.0mm
Disposable



Part # SGMC-DN