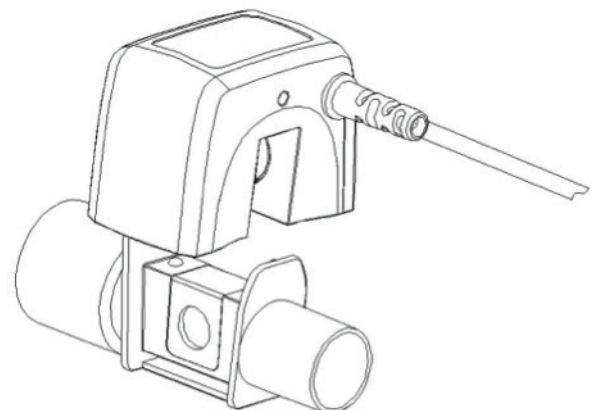


Mainstream Capnograph Module

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.

SensoGas-MC 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 CO₂ detection, can detect minimum 0.1 vol% CO₂ change
- ◆ High accuracy of Mainstream CO₂ 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



Part # SGMC

SPECIFICATIONS

GENERAL

Principal of Operation . . . *Non-dispersive Infrared (NDIR) single beam optics, dual wavelength, 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)
Humidity 15% ~ 95%, non condensing
Pressure 400 ~ 1200 hPa

PERFORMANCES

Measurements . . . *EtCO₂, InsCO₂, RR and real-time CO₂*
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:
• CO₂ Range 0 ~ 20 vol%
• CO₂ Resolution 0.1 vol%
• CO₂ Accuracy 0 ~ 12%: ±(0.2vol%+2% of reading)
12 ~ 20%: ±(0.2vol%+6% of reading)
AWRR Range 0 ~ 150 rpm
AWRR Resolution 1rpm
AWRR Accuracy 0 ~ 70rpm, ±2rpm, otherwise undetermined.
Breath Detection *Adaptive threshold, minimum 1 vol% change in CO₂ concentration.*

ACCESSORIES

AIRWAY ADAPTERS

For Adults & Pediatric
Less than 5ml deadspace.
ET Tubes > 4.0 mm
Desinfectable and Reusable.



Part # SGMC-A

For Neonate & Infant
Less than 1ml deadspace.
ET Tubes ≤ 4.0 mm
Desinfectable and Reusable.



Part # SGMC-N