Poet® IQ Anesthetic Gas Analyzer

5 AGENT ID | O₂, CO₂, N₂O MONITORING | COMPATIBLE WITH nCOMPASS™

A powerful combination – proprietary CSI vital signs and 5-agent gas analysis technology. Versatile, reliable, and incredibly compact. Designed for anesthesia applications in hospitals and outpatient surgical centers.

Features

- State-of-the-art non-dispersive infrared (NDIR) technology identifies and measures five anesthetic agent gases: Halothane, Enflurane, Isoflurane, Desflurane and Sevoflurane.
- Automatic or manual modes.
- Breath-by-breath O₂, CO₂, and N₂O monitoring.
- Gas flow sampled at 100, 150 and 200 ml/min.
- Mixed agent identification.
- Measurement accuracy is not affected by alcohol or ketones.
- Fast warm-up time ensures full accuracy within minutes.
- Auto-calibration.
- Bright, real-time display of numerical values and waveforms provides instant notification of changing patient status.
- Lightweight, portable design provides flexible workspace options.

Criticare’s Poet® IQ Anesthetic Gas Analyzer, when paired with the nCompass™ Patient Monitor, provides a unique combination of leading edge vital signs technology and anesthesia gas monitoring in a compact, modular system.

The Poet® IQ automatically identifies and quantifies inspired and expired O₂, CO₂, N₂O, and five anesthetic agents. The system’s reliable performance, ease of use, flexible design, and affordable cost make it the ideal monitoring solution for anesthesia applications in hospitals and surgical centers.
Technical Specifications

Gas Monitoring
Method: Sidestream;
Non-dispersive infrared (NDIR)
Identified Gases: Halothane, Enflurane, Isoflurane, Desflurane, Sevoflurane, O₂, CO₂, N₂O
Concentration Units: Vol%, Torr, kPa, mmHg
Flow Rates: 100, 150 or 200 ml/min
Agent Detection
Measurement Range: Halothane: 0 to 10%
Enflurane: 0 to 10%
Isoflurane: 0 to 10%
Desflurane: 0 to 20%
Sevoflurane: 0 to 10%
CO₂: 0 to 12.5%
N₂O: 0 to 99%
O₂: 0 to 100%
Measurement Accuracy: Agents: ±0.1% abs. + 4% of reading
CO₂: ±0.2% abs. or 4% of reading
N₂O: ±1.5% abs. + 4% of reading
O₂: ±3 vol% (0 – 90%)
±4 vol% (91 – 99%)
Time to Detect Agent: < 15 seconds @ 200 ml/min
Agent Detection Resolution: 0.1 vol%
Mixed Gas Threshold: 0.2 vol% +10% of total concentration
Rise Time: Agents: 450 msec
CO₂: 350 msec
N₂O: 400 msec
O₂: 600 msec
Respiration Rate
Range: 1 to 60 Br/min
Accuracy: ±2 Br/min or 2% of reading
System Features
Occlusion Clearing: Automatic
Auto Zeroing: Occurs 30 to 60 minutes
Duration: 3.0 to 7.0 seconds
Manual user calibration not required.
Temperature stabilized optical assembly.
Auto-calibration; verification recommended once per year.
Warm-up Time: 1 minute to first waveforms;
< 20 minutes to full accuracy
Alarms
Alarm Characteristics: EN 475, Adjustable; with audible and visual indications from the patient monitor.
Alarm Levels: High, Medium, Low, Informational
Alarm Modes: Adult/Pediatric/Neonate
High and low limit settings for each mode.
Trends
Memory: 24 hours of stored data in patient monitor
Display: Tabular, Graphical
Display Connects to nCompass™
8100H Series patient monitors
Languages
Consult with sales or customer service for available language configurations
System Outputs
System Configuration: Modular design with bi-directional communication, via cable, to the host monitor.
Waveform Output: Halothane, Enflurane, Isoflurane, Desflurane, Sevoflurane, CO₂, N₂O, O₂
Output Data: Inspired and end-tidal gas concentrations; continuous real-time gas concentrations; respiratory rate (elapsed time since last breath); agent identification (primary agent and mixed agents); system information (diagnostic status messages)
Power Requirements
Voltage: 12 VDC, typical
Power Consumption: 6W peak, 3W typical
Mechanical
Weight: 5.9 lbs. (2.7 kgs.)
Size: Height: 4.0 in (10.2 cm)
Width: 14.0 in (35.6 cm)
Depth: 10.8 in (27.3 cm)
Environmental
Operating Temperature: 59° to 95°F (15° to 35 °C)
Storage Temperature: 23° to 122°F (-5° to 50 °C)
Operating/Storage Humidity: 15% to 95%, noncondensing
Altitude: -1,000 ft to 10,000 ft (-300 m to 3,000 m)
Classification
Medical Device: Class II Equipment (IIb EU)
Electrical Protection: Class I Equipment
Degree of Protection: Type CF, Defibrillator-Proof
Protection Against Ingress: Ordinary


Configurations Available
8500H Standard