

Poet[®] IQ2 Anesthetic Gas Monitor

5 AGENT ID | O₂, CO₂, N₂O MONITORING | STAND ALONE OPERATION

A powerful monitoring tool - proprietary state-of-the-art digital 5-agent gas analysis technology. Versatile, reliable and incredibly compact. Designed for anesthesia applications in hospitals and outpatient surgery centers.



Features

- State-of-the-art non-dispersive infrared (NDIR) technology identifies and measures five anesthetic agent gases: Halothane, Enflurane, Isoflurane, Desflurane and Sevoflurane.
- Breath-by-breath O₂, CO₂, and N₂O monitoring.
- Automatic or manual modes.
- Gas flow sampled at 100, 150 and 200 ml/min.
- 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 waveforms and numerical values provides instant notification of changing patient status.
- Lightweight, portable design provides flexible workspace options.

The Poet[®] IQ2 anesthetic gas monitor is a compact stand-alone monitor that provides leading edge anesthesia gas monitoring.

The system's reliable performance, ease of use, flexible design and affordable cost makes it the ideal monitoring solution for anesthesia applications in hospitals and surgical centers.

The Poet[®] IQ2 automatically identifies and quantifies inspired and expired O₂, CO₂, N₂O, and five anesthetic agents. The system is compatible with color VGA displays and has large screen output capability.

Poet[®] IQ2 Anesthetic Gas Analyzer

Technical Specifications

Gas Monitoring

Method:	Sidestream; Non-dispersive infrared (NDIR)
Identified Gases:	Halothane, Enflurane, Isoflurane, Desflurane, Sevoflurane, O ₂ , CO ₂ , N ₂ O
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%
	CO ₂ : 0 to 12.5%
	N ₂ O: 0 to 99%
	O ₂ : 0 to 100%

Measurement Accuracy:	Agents: ±0.1% abs. + 4% of reading
	CO ₂ : ±0.2% abs. or 4% of reading
	N ₂ O: ±1.5% abs. + 4% of reading
	O ₂ : ±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
	CO ₂ : 350 msec
	N ₂ O: 400 msec
	O ₂ : 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.
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
Display:	Tabular, Graphical

Display

Main Display:	Active color TFT
Size:	5.5 in
Resolution:	Internal: 320 x 240 pixels
	External: 640 x 480 pixels

System Outputs

Com Ports:	Com 1; RS 232 compatible, Serial DB-9
	Com 2; Serial/Analog, mini-DIN8
Video Port:	Color VGA compatible, High Density D-Sub 15

Power Requirements

Voltage:	100, 120, 220, 240 VAC; 50/60 Hz
Power Consumption:	40W typical
Battery:	NiMH
Life:	1 hr typical
Recharge Time:	3 hrs typical

Mechanical

Weight:	13 lbs; 5.9 kg
Size:	6.5 in (H) x 11.0 in (W) x 12.0 in (D)
	16.5 cm (H) x 27.9 cm (W) x 30.5 cm (D)

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:	-1000 ft to 10,000 ft (-300 m to 3,000 m)

Classification:

Electrical Protection:	Class I Equipment
Degree of Protection:	Type CF, Defibrillator-Proof
Protection Against Ingress:	Ordinary



Quality systems registered to ISO 13485 and CE marking per Annex II, Clause 3 of Council Directive No. 93/42/EEC concerning medical devices.

Configurations Available

8500Q Standard



Compatible with external VGA displays.
External display not included.