

Poet IQ2 Anesthetic Gas Monitor

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 surgical centers.

Model: 8500Q

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 make it the ideal monitoring solution for anesthesia applications in hospitals and surgical centers.

- Automatically identifies and quantifies inspired and expired O₂, CO₂, N₂O, and five anesthetic agents.
- Compatible with color VGA displays and has large screen output capability.

Poet IQ2 Anesthetic Gas Monitor

Technical Specifications

Gas Monitoring

Method:	Sidestream; Non-dispersive infrared (NDIR)
Identified Gases:	Halothane, Enflurane, Isoflurane, Desflurane, Sevoflurane, CO ₂ , N ₂ O, Oxygen
Concentration Units:	Vol%, Torr, kPa, mmHg
Flow Rates:	100 ml/min, 150 ml/min, 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%
	Oxygen:	0 to 100%
Measurement Accuracy:	Agents:	± (0.1% abs. + 4% reading)
	CO ₂ :	± 0.2% abs. or 4% of reading
	N ₂ O:	± (1.5% abs. + 4% of reading)
	Oxygen:	± 3 vol% (for 0-90%), ± 4 vol% (for 91-99%)

Time to Detect Agent:	< 15 seconds @ 200ml/min	
Agent Detection Resolution:	0.1 Volume Percent	
Mixed Gas Threshold:	0.2 vol. % +10% of total concentrations	
Rise Time:	Agents:	450 msec
	CO ₂ :	350 msec
	N ₂ O:	400 msec
	Oxygen:	600 msec

Respiration Rate

Range:	1 to 60 breaths/minute
Accuracy:	± 2 breaths/minute 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

Display

Main Display:	Active color TFT
Size:	5.5" Display Area
Resolution:	Internal Display; 320 x 240 pixels External Video; 640 x 480 pixels
Number of Traces:	3 maximum

Controls

Keys:	7; membrane-activated
Rotary knob:	Push and rotate; 24 steps/turn

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

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 History available with external VGA display
Display:	Tabular, Graphical

Power Requirements

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

Mechanical

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

Environmental

Operating Temperature:	15° to 35° C; 59° to 95° F
Storage Temperature:	-5° to 50° C; 23° to 122° F
Operating/Storage Humidity:	15% to 95%, noncondensing
Altitude:	-300m to 3000m (-1,000 to 10,000 ft.)
Type of Protection:	Class I Equipment
Degree of Protection:	Type CF, Defibrillator-proof
Protection against ingress:	Ordinary

Compatible with external VGA displays.



External display not included.



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