

BC Biomedical Anesthetic Agent Analyzer

AA-2005 Anesthetic Agent Analyzer

Features

- State-of-the-art non-dispersive infrared (NDIR) technology identifies and measures five anesthetic agent gases:

Halothane, Enflurane,
Isoflurane, Desflurane, and
Sevoflurane.

- Also measures O₂, CO₂, and N₂O
- 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.
- Service tool for anesthesia service application (NOT FOR CLINICAL USE)



Overview

A powerful monitoring tool – proprietary state-of-the-art digital 5-agent gas analysis technology. Versatile, reliable, and incredibly compact. Designed for testing Anesthetic vaporizer output concentration in hospitals and outpatient surgical centers.

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

- Automatically identifies and quantifies five anesthetic agents.
- Detects and quantifies mixed agents.
- Compatible with color VGA displays and has large screen output capability.

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Specifications

Gas Monitoring		Display	
Method:	Sidestream; Non-dispersive infrared (NDIR)	Main Display:	Active color TFT
Identified Gases:	Halothane, Enflurane, Isoflurane, Desflurane, Sevoflurane, CO ₂ , N ₂ O, Oxygen	Size:	5.5" Display Area
Concentration Units:	Vol%, Torr, kPa, mmHg	Resolution:	Internal Display: 320 x 240 pixels
Flow Rates:	100 ml/min, 150 ml/min, 200 ml/min	External Video:	640 x 480 pixels
Agent Detection		Number of Traces:	3 maximum
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%	Controls	
Measurement Accuracy:	Agents: \pm (0.1% abs. + 4% reading) CO ₂ : \pm 0.2% abs. or 4% of reading N ₂ O: \pm (1.5% abs. + 4% of reading) Oxygen: \pm 3 vol% (for 0-90%), \pm 4 vol% (for 91-99%)	Keys:	7; membrane-activated
Time to Detect Agent:	< 15 seconds @ 200ml/min	Rotary knob:	Push and rotate; 24 steps/turn
Agent Detection Resolution:	0.1 Volume Percent	System Outputs	
Mixed Gas Threshold:	0.2 vol. % +10% of total concentrations	Com Ports:	Com 1: RS 232-compatible, Serial DB-9 Com 2: Serial/Analog, mini-DIN8
Rise Time:	Agents: 450 msec CO ₂ : 350 msec N ₂ O: 400 msec Oxygen: 600 msec	Video Port:	Color VGA compatible, High Density D-Sub 15
Respiration Rate		Alarms	
Range:	1 to 60 breaths/minute	Alarm Characteristics:	EN 475, Adjustable; with audible and visual indications.
Accuracy:	\pm 2 breaths/minute or 2% of reading	Alarm Levels:	High, Medium, Low, Informational
System Features		Alarm Modes:	Adult/Pediatric/Neonate High and low limit settings for each mode.
Occlusion Clearing:	Automatic	Trends	
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 every 6-months.	Memory:	24 hours of stored data, History available with external VGA display
Warm-up Time:	1 minute to first waveforms; < 20 minutes to full accuracy	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