



Anesthesia Multigas Sidestream Analyzer

Product Introduction

The AG100 series multigas analyzer is the ideal low sampling-rate anesthesia solution for your patient monitoring system. AG100 can show an accurate gas concentration with all respiration rates up to 150 breaths per minute. Advanced technology enables AG100 to provide accurate measurement of CO₂, N₂O, anesthetic agents gas, respiration rate, inspiration time and expiration time. With a sampling-rate low to 50 mL/min, AG100 is ideal for use on adult, pediatric and infant patients; patients undergoing procedural sedation; and short-term monitoring of intubated patients.

Product Features

- State-of-the-art Non-dispersive infrared (NDIR) technology
- CO₂, N₂O and anesthesia multigas monitoring
- Real-time and continuous measurement of gas concentrations and respiratory rate
- Sample rate low to 100 mL/min
- Barometer pressure and temperature compensation
- Fast warmup time ensures full accuracy within 2 minutes
- Low power consumption less than 2W
- Fully compatible with PHASEIN's protocol

Technical Specifications

Transducer Type	Ag-100 series multigas analyzer		
Sample Rate	100 mL/min, ± 10mL/min.		
Principle of Operation	Non-dispersive infrared (NDIR) ,no moving parts		
Initialization Time	20 sec, full specifications within 60 sec.		
Calibration	No routine user calibration required		
Compensation	Automatic for atmospheric pressure, temperature		
Rise Time	Co2 < 200ms, N2O,AA < 350ms		
Respiratory Rate	Range	3 to 150 Breaths Per Minute (BPM)	
	Accuracy	± 1 breath	
Breath Detect	Adaptive threshold, minimum 1% Co2 change		
Agent Threshold	Agent 0.3 vol%		
Measurement Accuracy	gas type	range	accuracy
	CO2	0 - 10%	± (0.2 vol% +2% of reading)
		10 -15%	± (0.3 vol% +2% of reading)
	N2O	0 - 100%	± (2vol% +2% of reading)
	ISO,ENF,HAL	0 - 6%	± (0.2vol% +2% of reading)
	DES	0 - 18%	± (0.2vol% +2% of reading)
SEV	0 - 8%	± (0.2vol% +2% of reading)	
Interface	RS-232 operating at 9600 bps		
Voltage Requirements	5.0 VDC ±5%		
Power Consumption	Less than 2.0 Watts typical.		
Temperature and Humidity	Operating: 0 C to 40 C, 10 to 90% RH, non-condensing		
	Storage: -40 C to 70 C, <90% RH, non-condensing		
Size	96 x 57.5 x 30 mm		
Weight	110 g		