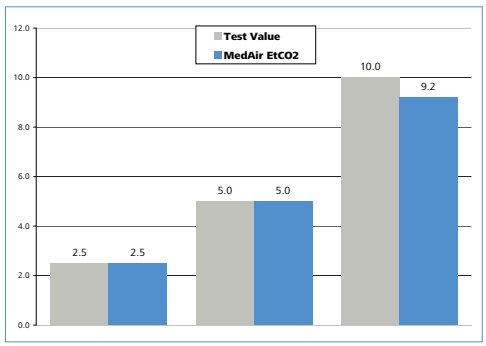
Accurate and Fast First Breath Technology

Key Features:

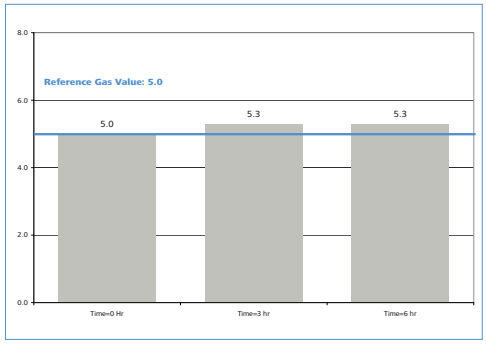
- Superior Optical Bench – accurate and stable measurements
- Fast-First-Breath Reading – because time matters

MedAir EtCO$_2$ Accuracy

Measured Values Across Range of Test Gas Values

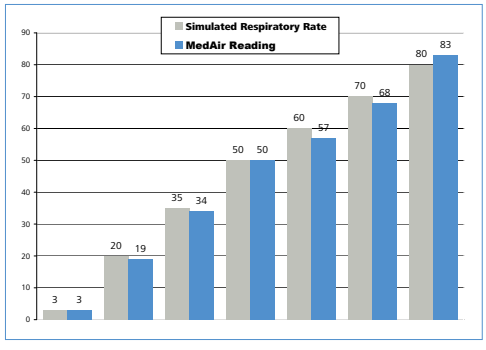


Six-Hour Drift Assessment



MedAir Respiratory Rate Accuracy*

Measured Values Across Range of Simulated Respiratory Rates



Testing conducted at Nonin Medical, Inc.

RespSense™
WIDESCREEN™
Capnography

Superior EtCO$_2$ Technology for Accurate and Fast Monitoring

MedAir™, a leader in high performance EtCO$_2$ technology, uses a low flow sidestream technology designed to monitor the respiratory status of intubated or spontaneously breathing patients. The core technology utilizes a stable optical bench to provide a fast and accurate measurement. Unlike other technologies that require an integrated solenoid valve for auto-zeroing, the MedAir EtCO$_2$ optical design provides continuous monitoring by eliminating the need to interrupt patient measurement to compensate for drift.

Testing conducted by independent laboratory, Intertek Semko AB in Kista, Sweden, in accordance with ISO 21647 standards, verified MedAir's EtCO$_2$ superior accuracy. The drift of measurement accuracy was tested with 5.0% CO$_2$ for six hours of continuous monitoring.

MedAir EtCO$_2$ technology utilizes advance algorithms to provide an accurate respiration reading. Following the first breath, the EtCO$_2$ module adapts to a fast averaging based on two breaths.

Other Features:

- Non-Proprietary Tubing – reduces operation costs
- Advanced Moisture Management – for high humidity environments

Sample Line Options:

Infant to Adult CO_2 Nasal Sampling Cannulas

Straight T-connector

Sample Line Nafion Tubing

Moisture Management:

Advanced Moisture Trap with Filters

Specifications

Operation

Working temperature:	-5° to +40°C (23° to 104°F)
Humidity:	10 – 90% (non-condensing)
Atmospheric pressure:	860 – 1060 hPa

Storage

Storage temperature:	-20° to +50°C (-4° to +122°F)
Humidity:	10 – 95% (non-condensing)
Atmospheric pressure:	Up to 4 atmospheres (110 - 4050 hPa)

Pump

Pump flow:	75 ml/min
Flow accuracy:	±15ml/min

Capnography Measuring Data

Respiration range:	3 – 80 respirations/min
Update frequency:	Once every breath
Respiration accuracy:	3 – 50 respirations/min ± 2
	51 – 80 respirations/min ± 5
$EtCO_2/CO_2$ range:	0 – 9.9 kPa, or 0 – 99 mmHg
$EtCO_2/CO_2$ accuracy:	±0.2 kPa / ±2 mmHg, +6% of reading
Update frequency:	Once every breath

MDD 93/42/EEC; EN 60601-1; EN 60601-1-1; EN 60601-1-2; EN 60601-1-4; EN 60601-1-8; EN ISO 14971:2000; EN ISO 9919:2005; EN ISO 21647:2004; EN 1789

Complies with following Quality management system: ISO 9001:2000; ISO 13485:2003; MDD 93/42/EEC

Specifications are subject to change without notice

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