Masimo Capnography and Multi-gas OEM Solutions

Breakthrough sidestream and mainstream gas monitoring technology



Masimo capnography and multi-gas solutions are flexible, easy to integrate, and designed to measure respiratory gases in a wide range of clinical applications and patient populations. They feature:

- > Complete end-to-end solutions, with both mainstream and sidestream options
- > Flexible configurations, able to accommodate the full spectrum of gas monitoring needs, from capnography to advanced multi-gas measurement
- > Ease of integration with external analysers and built-in modules that use a universal communication protocol
- Moisture-wicking sampling line technology for effective sidestream capnography and multi-gas measurement



NomoLine® ISA™ Sidestream Analysers

Flexible sidestream gas monitoring solutions in a variety of innovative configurations

- > Designed for real-time, accurate, continuous measurement of inspired and expired gas concentrations and respiratory rate
 - Able to measure CO₂, O₂, N₂O, and anaesthetic agents (HAL, ENF, ISO, SEV, DES) with auto agent-ID

Features and Benefits:

- A variety of gas analyser options allows monitoring of all patient populations (adults through neonates) in a variety of clinical settings, including the OR, ICU, general ward, emergency department, and during transportation
- > With virtually no warm-up time and full accuracy performance in seconds, accurate data is quickly available to help clinicians intervene faster
- > 50 ml/min sampling flow facilitates accurate measurements and crisp waveforms, allowing for gas monitoring on patients with low tidal volumes and high respiratory rates, such as neonates
- > Compact size, lightweight design, and the availability of multiple configurations (external and built-in) promotes easy integration
- > Low power consumption and automatic temperature and pressure compensation make NomoLine ISA gas analysers easy to maintain



NomoLine ISA CO2, ISA AX+, ISA OR+



NomoLine ISA Capno Module

NomoLine Sampling Lines

Sampling lines with moisture-wicking technology

> Compatible with Masimo ISA analysers to provide accurate sidestream capnography and multi-gas measurements

Features and Benefits:

- > Multiple sampling line options allow for use on both intubated and non-intubated patients in both low- and high-humidity environments
- > Patented polymer allows moisture to defuse into the environment, providing accurate measurements and eliminating the need for a water trap
- > Hydrophobic filter protects module from bacteria, viruses, and water intrusion
- > Low-flow application design facilitates use across all patient populations, including adult, paediatric, infant, and neonatal patients
- > Lightweight, soft cannulas are ergonomically designed for greater patient comfort
- > Simple plug-in connector allows for a leak-free connection to the gas analyser



NomoLine HH Nasal/Oral Cannula with O2



NomoLine LH Airway Adapter Set

IRMA™ Mainstream Analysers

Versatile, mainstream capnography and multigas technology in a compact, lightweight design

- > Designed for real-time, accurate, and continuous measurement of inspired and expired gas concentrations and respiratory rate
 - Able to measure CO₂, N₂O, and anaesthetic agents (HAL, ENF, ISO, SEV, DES) with auto agent-ID
- Unique, flexible design makes IRMA the only mainstream multi-gas analyser in the world

Features and Benefits:

- > Compact size and lightweight design allow monitoring of adult, paediatric, and infant patients in a variety of clinical settings, including the OR, ICU, emergency department, and during transportation
- > With virtually no warm-up time and full accuracy performance in seconds, accurate data is quickly available to clinicians, promoting efficient response
- > Flexible design supports monitoring patients with high respiration rates (up to 150 bpm), while providing crisp waveforms with fast rise times
- > Low power consumption and automatic temperature and pressure compensation make IRMA gas analysers easy to maintain
- > Small size and the availability of multiple configurations promotes easy integration
- > With measurements recorded through respiratory circuit via the IRMA Airway Adapter, removing respiratory gas from the patient is not required



IRMA CO2



IRMA AX+

IRMA Airway Adapters



IRMA Adult/Paediatric Airway Adapter



IRMA Infant Airway Adapter

ISA and IRMA Accessories



ISA Analyser Modura Holder with ISA Analyser Clamp Adapter



NomoLine ISA Mounting Kit



ISA Gas Exhaust Kit



IRMA Holder Velcro

Performance and Specifications

ORDERING INFORMATION	GAS ANALYSER		
IRMA CO2	Automatic compensation		
NomoLine ISA CO2	ISA sampling flow rate		
ISA OR+ module (CO2, N2O, 5 AA, AA ID)	Fulfills the requirements of EN ISO 80601-2-55 Accuracy during standard conditions:		
	RANGE ACCURACY		
GENERAL	CO2 ± (0.2 vol% + 2% of reading)		
WeightIRMA CO2/AX+: < 25 g (cable excluded)	N2O		
NomoLine ISA CO2: < 98 g (cable excluded)	HAL, ISO, ENF		
ISA AX+: < 130 g, ISA OR+: < 420 g	SEV		
SizeIRMA CO2/AX+: 38 x 37 x 34 mm (1.49 x 1.45 x 1.34 inches)	DES		
NomoLine ISA CO2: 37 x 91 x 60 mm (1.4 x 3.6 x 2.4 inches)	O2 (ISA OR+)		
ISA AX+: 33 x 78 x 49 mm (1.3 x 3.1 x 1.9 inches)			
ISA OR+: 49 x 90 x 100 mm (1.9 x 3.5 x 3.9 inches)	Rise timeIRMA CO2: \leq 90 ms		
Power supply	IRMA AX+: CO2 ≤ 90 ms, N2O, Agents ≤ 300 ms NomoLine ISA CO2: ≤ 200 ms		
IRMA AX $+$: $< 1.4 \text{ W (normal op.)}$	ISA AX+/OR+: $CO2 \le 300 \text{ ms}$, N2O, Agents, $O2 \le 400 \text{ ms}$, HAL $\le 500 \text{ ms}$		
NomoLine ISA CO2: < 0.9 W (normal op.)	Analyser system response time IRMA CO2/AX+: < 1 sec,		
ISA AX+: < 1.6 W (normal op.)	NomoLine ISA CO2: \leq 3 sec, ISA AX+/OR+: \leq 4 sec		
ISA OR+: < 2.0 W (normal op.)	Breath detection		
	change in CO2 concentration		
ENVIRONMENTAL	Respiratory rate0-150 bpm ± 1 bpm		
Operating temperature	CERTIFICATIONS		
NomoLine ISA CO2: 0 to 50 °C (32 to 122 °F)	IRMA and ISA external analysers are CE Marked according to the 93/42/EEC		
ISA AX+/OR+: 5 to 50 °C (41 to 122 °F)	Medical Device Directive		
Storage temperature	Medical Device Directive		
NomoLine ISA CO2: -40 to 70 °C (-40 to 158 °F)	Data subject to change without notice		
ISA AX+/OR+: -40 to 70 °C (-40 to 158 °F)	CONNECTOR SOLUTIONS		
Operating humidity	IRMA and ISA external analysers are available with either a female DB-9 connector or a		
Operating atmospheric pressure	male 8-pin LEMO Push n' Pull connector for power supply and RS-232 communication. An		
PATIENT CONNECTIONS	open-end cable (REF 100270) that matches the DB-9 connector can also be supplied for		
IRMA Airway Adapter Adult/Paediatric	customer specific connector solutions.		
IRMA Airway Adapter Infant			
REF 106260 NomoLine sampling lines			

Variety of Options to Meet All of Your Needs

	Analyser Options						
		NomoLine ISA CO2	ISA AX+	ISA OR+	IRMA CO2	IRMA AX+	
Gases	CO2	•	•	•	•	•	
	02			•			
	N2O		•	•		•	
	Agents		•	•		•	
	Auto ID/mixed agents		•	•		•	
	Optional built-in module	•	•	•			

For professional use. See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.







