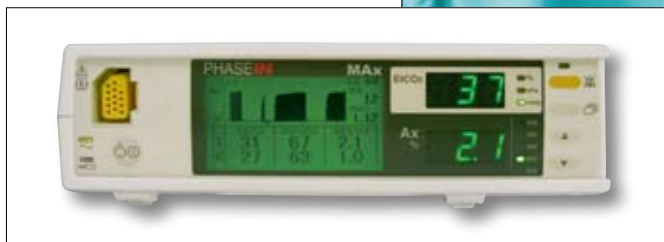


MAx™ Multigas Analyzer



World's first mainstream multigas analyzer with automatic agent identification

If you are considering a gas analyzer there are many important considerations you should take into account. Some are of obvious importance while others are subtle yet critical for your ultimate satisfaction. When it comes to the MAx Multigas Analyzer the advantages are all yours:

A complete analyzer in a probe

The entire multigas analyzer is comprised in the IRMA probe which is as small as an oximeter sensor and weighs only 30 grams. It is designed using the latest advances in component and microprocessor technology to provide a complete mainstream gas monitoring system with unique versatility and design. The IRMA probe measures infrared light absorption at different wavelengths in order to precisely determine gas concentrations in the mixture.

Extremely easy to use

Whatever technology you decide to buy it will have to last for the foreseeable future. What you need is a solution with the flexibility to measure gas in different applications and trouble-free operation. The unique user friendly interface and comprehensive alarm system of the MAx Multigas Analyzer makes it the perfect choice for monitoring gas in routine clinical use.

Easy to upgrade

As your needs develop, upgrading MAx is as simple as attaching a new IRMA probe. The IRMA probes are available in a wide choice of configurations from a simple CO₂ only version, to the most sophisticated including CO₂, O₂, N₂O, anaesthetic agents (HAL, ENF, ISO, SEV, DES) and agent identification.

Uncompromising convenience

PHASEIN IRMA technology eliminates expensive gas calibrations and complex calibration procedures. The IRMA probe is factory-calibrated and requires no assembly or calibration. The IRMA mainstream probes are designed to overcome the shortfalls of current technologies: namely, liquid and secretion handling, calibration, service costs etc. The MAx Multigas Analyzer contains a standard battery back-up ensuring two hours of uninterrupted operation.

Simply connect the IRMA probe to a MAx Multigas Analyzer, turn on the unit and start measuring.

We call it PLUG-IN and MEASURE...™

phasein
MEDICAL TECHNOLOGIES

Technical Specifications



General

Description: Multigas Analyzer including IRMA Probe.

Power supply: 100-127 V AC or 220-240 V AC.

Power consumption: 50 VA.

Battery: Minimum operating time 2 hrs.

Weight: 1 kg.

Size: 210 x 164 x 62 mm (8.2 x 6.4 x 2.4 inches).

Display: Fi/ET values for CO₂, O₂, N₂O, primary agent, secondary agent; MAC; RR.

Trends: Fi/ET - CO₂, O₂, N₂O and Agents up to 16 h.

Alarms: Adjustable alarm levels for LO/HI ETCO₂, CO₂ Rebreathing, Apnea, RR, LO/HI FiO₂, HI FiN₂O, LO/HI FiAA, Mixed Agents.

Languages: Czech, Dutch, English, French, German, Italian, Spanish, Swedish.

Gas Analyzer

IRMA Probe: Ultra small infrared main stream multi gas probe comprising a multi channel IR-bench, barometric pressure sensor, power regulator, signal processor and an RS-232 digital interface.

Calibration: No routine calibration is required. Room air calibration performed when changing airway adapter (<5 sec).

Warm-up time: 10 sec, full specifications within 60 sec.

Interface: RS-232 interface operating at 9 600 bps.

Power consumption: <1.2 W.

Weight: IRMA sensor head 30 g (cable excluded).

Size: 37 x 27 x 25 mm (1.45 x 1.1 x 0.9 inches).

Shock proof design: Withstands repeated 1 m drops.

Operating: 10 to 40 °C (50 to 104 °F).

Storage: -20 to 50 °C (-4 to 122 °F).

Humidity: 10 - 95 %, non-condensing.

Atm.pres: 700 - 1200 hPa (3048 m).

Airway Adapters

Adult/Pediatric: 6 ml dead space.

Infant: 1 ml dead space.

Gases

The accuracy of all measurement values is according to the requirements of EN ISO 21647:2004 and EN 864:1996.

During standard conditions:

	Range	Accuracy
CO ₂	0 - 10 %	± (0.2 % _{ABS} + 2 % _{REL})
O ₂	10 - 100 %	± (1 % _{ABS} + 2 % _{REL})
N ₂ O	0 - 100 %	± (2 % _{ABS} + 2 % _{REL})
HAL,ISO,ENF	0 - 5 %	± (0.15 % _{ABS} + 5 % _{REL})
SEV	0 - 8 %	± (0.15 % _{ABS} + 5 % _{REL})
DES	0 - 18 %	± (0.15 % _{ABS} + 5 % _{REL})

Rise Time: CO₂ < 90 ms, N₂O, AA < 300 ms, O₂ < 300 ms.

Breath detect: Adaptive threshold, minimum 1 % CO₂ change.

Respiratory rate: 0 - 150 bpm ± 1 breath/min.

Agent Identification: Primary agent 0.15 %, secondary agent 0.2 % + 10 % of total agent concentration.

Compensation: Automatic for atmospheric pressure, temperature and spectral interference.

Certifications

CE marked according to the 93/42/EEC Medical Device Directive.

Data subject to change without notice

MAx™ Multigas Analyzer
CAT.NO. 500100



Universal C-clamp
CAT.NO. 100510



MAx Multigas Analyzer, CO₂
(CO₂)
CAT.NO. 500103

MAx Multigas Analyzer, Ax
(CO₂, N₂O, HAL, ENF, ISO, SEV, DES)
CAT.NO. 500503

MAx Multigas Analyzer, Ax+
(CO₂, N₂O, HAL, ENF, ISO, SEV, DES, Agent ID)
CAT.NO. 500603

MAx Multigas Analyzer ICU
(CO₂, O₂)
CAT.NO. 500203

MAx Multigas Analyzer, OR
(CO₂, O₂, N₂O, HAL, ENF, ISO, SEV, DES)
CAT.NO. 500303



IRMA Airway Adapter
Adult/Pediatric
Box of 25
CAT.NO. 106220

IRMA Airway Adapter
Infant
Box of 10
CAT.NO. 106260

IRMA Airway Adapter O₂
Adult/Pediatric
Box of 25
CAT.NO. 106210

