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Технические характеристики на анализаторы расхода газов VT900A, VT900A + ACCULUNG II, VT900A + ACCULUNG, MaxO2 PLUS AE компании FLUKE BIOMEDICAL

$MaxO_2$ PLUS AE Oxygen Analyzer For Medical

The MAXO2+AE is an oxygen analyzer that measures the oxygen concentration in a flow of gas from a medical gas source or through a medical gas-flow device such as a ventilator or anesthesia system, or within an infant incubator. It is handheld and rugged to suit the needs of portable use. The MAXO2+ AE comes equipped with a two-year warranty on both analyzer and sensor.

Key Features

- One-touch calibration, with reminder Long battery life (approx. 5,000 hrs) Impact resistant and drip proof
- External MAX-250E Oxygen Sensor
-
-

The MAXO2+AE is an oxygen analyzer that measures the oxygen concentration in a flow of gas from a medical gas source or through a medical gas-flow device such as a ventilator or anesthesia system, or within an infant incubator. It is handheld and rugged to suit the needs of portable use. The MAXO2+ AE comes equipped with a two-year warranty on both analyzer and sensor.

Key Features

- One-touch calibration, with reminder
- Long battery life (approx. 5,000 hrs)
- One-touch calibration, with reminder | Long battery life (approx. 5,000 hrs) |
- External MAX-250E Oxygen Sensor

Standard Accessories

97132 Fuel Cell O2 Sensor

97132 Fuel Cell O2 Sensor (part# 2248801)

MaxO2 PLUS AE Oxygen Analyzer

Measurement Range:

0 % to 100 %

Resolution:

0.1 %

Accuracy and Linearity:

1 % of full scale at constant temperature, RH and pressure when calibrated at full scale

Total Accuracy:

± 3 % actual oxygen level overfull operating range

Response Time:

90 % of final value in approx. 15 sec at 23° C

Warm-up Time:

None required

Power Supply

Battery Life:

Approx. 5000 hrs with continuous use

Low Battery Indication:

BAT icon displayed on LCD

Sensor Type:

Maxtec MAX-250E for AE model

Expected Sensor Life:

> 900,000 O2 % hours minimum, 2 years in typical medical applications

Power Requirements:

2, AA alkaline batteries

Environmental Requirements

Operating Temperature:

15° C to 40° C (59° F to 104° F)

Storage Temperature:

-15° C to 50° C (5° F to 122° F)

Atmospheric Pressure:

-800 mBar to 1013 mBar

Relative Humidity:

Operating range: 0 % to 95 % (non-condensing)

Dimensions

Dimensions:

3.0 in W x 36.0 in H x 1.5 in D
(76 mm x 914 mm x 38 mm)
Weight: 0.6 lb (285 g)

VT900A Gas Flow Analyzer Ventilator

Tester

Provides high accuracy for testing gas flow and respiratory medical equipment.
Do you also need to test vaporizers? View the package.

The Fluke Biomedical VT900A Gas Flow Analyzer / Ventilator Tester is accurate, easy-to-use, reliable and portable. It is designed to accurately and reliably test all types of gas flow equipment especially those requiring high accuracy in ultra-low flow and ultra-low pressure measurements. Compact and lightweight, the VT900A Gas Flow Analyzer is extremely portable, and saves space on your benchtop.

All models include:

- Bacterial filter (1)
  1.2 m (4 ft) silicon tubing (2)
- 22 mm ID x 22 mm ID tubing adapters (2)
- 22 mm OD x 22 mm OD tubing adapters (2)
  15 mm ID x 22 mm ID tubing adapters (2)
- DISS hand-tight nut/nipple to 6.4 mm (1/4 in) ID hose barb adapter (1)

- USB serial cable
  AC power adapter
- Detachable carrying handle Detachable shoulder strap
- Certificate of Calibration with test data
-

Model Name	Part Number	Description
VT900A	5014711	GAS FLOW ANALYZER
VT900A with ACCULUNG II	5014730	GAS FLOW ANALYZER W/ PORTABLE TEST LUNG
VT900A with ACCULUNG	5034254	GAS FLOW ANALYZER W/ PORTABLE TEST LUNG & FLEXIBLE TUBING

Key Features

-
  - Streamline your testing procedure, reduce errors and quicken your test time with the ability to create customized test profiles
- Avoid confusion and ensure accuracy with one-channel, full range air flow
  - Reduce testing time with built-in line sensors which automatically test humidity, temperature and oxygen while compensating for atmospheric pressure and environmental conditions
-
  - Ensure patient safety with ultra-low flow and ultra-low pressure anesthesia and flow meter testing
- Have confidence that your measurements comply to global regulatory standards and adhere to SI units of measurement with the Molbloc-L calibration system.
  Easily transport and store the lightweight (3.6lb/1.6kg), all-in-one device – no extra modules for different tests
- Have more control over your medical equipment testing by selecting your own trigger point with the external trigger input
  Operate on-the-go, all day with 8 hours of battery life
- Streamline your testing procedure by performing a complete anesthesia machine PM with the

Accurate

The VT900A is Fluke Biomedical's high-accuracy premium gas flow analyzer and ventilator tester. The single, full-range ±300 lpm air flow channel offers built-in oxygen, temperature and humidity measurements to streamline testing and automatically compensate for environmental conditions. The VT900A features an external trigger input and special ultra-low flow and ultra-low pressure ports. These ultra low-flow and ultra-low pressure ports allow the highest accuracy for devices requiring crucial low volume and pressure testing such as anesthesia machines and flow meters. Designed and tested to world renowned Molbloc-L calibration specifications ensures traceability to global regulatory standards with reliable measurements you can count on.

Easy-to-use

The VT900A offers a large 7'' (17.8 cm) touch screen display, allowing you to view multiple measurements at once, and quickly access menu options. Review results in graphical or numerical data in real-time. The global user interface makes operating this device straightforward and uncomplicated.

Traceable

The large on-board memory of the VT900A Gas Flow Analyzer / Ventilator Tester allows both short and long-term recording and storing of test data. Transfer data via USB to a PC and upload the generated test file to your CMMS system for simple reporting. This device can be easily adapted to specific testing needs. With the ability to create custom profiles and the capacity to take remote commands for automated testing, the VT900A Gas Flow Analyzer / Ventilator Tester helps to decrease risk and increase efficiency.

Portable

Weighing only 3.6 lb (1.6 kg), this compact, all-in-one device is highly portable. The snap-in carrying handle/shoulder strap and rugged design allow you to easily test on-the-go, while its small unit size and bale (kick stand) allows comfortable viewing for benchtop testing. A universal VESA mount also gives you the option of mounting the device to save space. With AC/DC power options and an 8-hour battery life, this tester is perfect for laboratory, clinical or field environments where AC power may not be available.

Features	
Battery life hours	8 hrs
Charge time in hours	5 hrs, typical
Memory	internal memory
Connection type	USB, Micro-B device port
Weight	3.6 lb (1.6 kg)
Product dimensions (L x W x H)	23.9 x 18.8 x 7.6 cm (9.4 x 7.4 x 3 in)
Display	7 in (17.8 cm)
Single full-range channel	√
Ultra-low flow ports	±750 ml/min
Ultra-low pressure port	0 to 10 mbar
Flow	
Full range flow channel (includes both low and high flow, flow specifications are with laminar flow input)	
Range	0 to ±200 slpm
Accuracy	±2.0% of rdg or 0.04 slpm
Range	200 to 300 slpm, -200 to -300 slpm, -22 to - 14 slpm, +7.5 to +9.5 slpm
Accuracy	±2.5% of rdg
Ultra-low flow channel	
Range	±750 ml/min
Accuracy	±1.7 % or 0.01 slpm
Volume	

Features	
Range	±100 l
Accuracy	±2.0 % or 0.02 l
Pressure	
High pressure	
Range	-0.8 to 10 bar
Accuracy	±1 % or ±0.007 bar
Differential low pressure	
Range	±160 mbar
Accuracy	±0.5 % or ±0.1 mbar
Ultra-low pressure	
Range	0 to 10 mbar
Accuracy	±1 % or ±0.01 mbar
Airway pressure	
Range	±160 mbar
Accuracy	±0.5 % or ±0.1 mbar
Barometric pressure	
Range	550 to 1240 mbar
Accuracy	±1 % or ±5 mbar
Other	
Temperature	
Range	0 to 50 °C
Accuracy	±0.5 °C
Resolution	0.1 °C

Features	
Humidity	
Range	0 to 100 % RH
Accuracy	±3 % RH (20 to 80 % RH) ±5 % RH (20< or >80 % RH)
Oxygen	
Range	0 to 100 %
Accuracy	±1 %
Breath parameters	
Inspiratory tidal volume range	0 to 60 l
Inspiratory tidal volume accuracy	±2.0 % or 5 ml
Expiratory tidal volume range	0 to 60 l
Expiratory tidal volume accuracy	±2.0 % or 5 ml
Minute volume range	0 to 100 l
Minute volume accuracy	±2.0 % or 5 ml
Breath rate range	1 to 1500 bpm
Breath rate accuracy	±1 %
Inspiratory to expiratory time ratio (I:E) range	1:300 to 300:1
Inspiratory to expiratory time ratio (I:E) accuracy	±2 % or 0.1
Peak inspiratory pressure (PIP) range	±160 mbar
Peak inspiratory pressure (PIP) accuracy	±0.75 % or 0.1 mbar

Features	
Inspiratory pause pressure range	±160 mbar
Inspiratory pause pressure	±0.75 % or 0.1 mbar
Mean airway pressure range	±160 mbar
Mean airway pressure accuracy	±0.75 % or 0.1 mbar
Positive end expiratory pressure (PEEP) range	±160 mbar
Positive end expiratory pressure (PEEP) accuracy	±0.75 % or 0.1 mbar
Lung compliance range	0 to 1000 ml/mbar
Lung compliance accuracy	±3 % or 0.1 ml/mbar
Inspiratory time range	0 to 60 s
Inspiratory time accuracy	0.02 s
Inspiratory hold time range	0 to 60 s
Inspiratory hold time accuracy	1 % or 0.1 s
Expiratory time range	0 to 90 s
Expiratory time accuracy	0.5 % or 0.01 s
Expiratory hold time range	0 to 90 s
Expiratory hold time accuracy	0.02 s
Peak expiratory flow range	±300 lpm
Peak expiratory flow accuracy	±2.0 % or 0.04 lpm
Peak inspiratory flow range	±300 lpm
Peak inspiratory flow accuracy	±2.0 % or 0.04 lpm

Environmental

Features	
Operating temp	10 °C to 40 °C
Storage temp	-20 °C to 60 °C
Operating humidity	10 to 90 % non-condensing
Storage humidity	5 to 95 % non-condensing

Gas corrections	
ATP (ambient temp/pressure, actual humidity)	Air
ATPD (ambient temp/pressure, dry)	Nitrogen (N2)
ATPS (ambient temp/pressure, saturated)	Nitrous Oxide (N2O)
STP20 (20 °C temp/pressure 760 mmHg, actual humidity)	Carbon Dioxide (CO2)
STP21 (21 °C temp/pressure 760 mmHg, actual humidity)	Oxygen (O2)
STPD0 (0 °C temp/pressure 760 mmHg, dry)	Argon
STPD20 (20 °C temp/pressure 760 mmHg, dry)	Heliox (21 % O2, 79% He)
STP or STPD21 (21 °C temp/pressure 760 mmHg, dry)	Oxygen/Nitrogen
BTPS (body temp 37 °C/ambient pressure 760 mmHg, saturated)	Oxygen/Nitrous Oxide
BTPD (body temp 37 °C/ambient pressure 760 mmHg, dry)	Oxygen/Helium

VT900A Gas Flow Analyzer + VAPOR Anesthesia Tester

The VT900A + VAPOR Ventilator and Anesthesia Test duo is designed to efficiently and reliably perform a full anesthesia machine PM, from ventilators to vaporizers.

Every kit includes and

The VAPOR Anesthesia Tester is an accessory to the VT900A Gas Flow Analyzer / Ventilator Tester that expands your testing capability to vaporizers. VAPOR automatically detects the 5 major anesthetic agents, CO_2, and N_2O, and identifies them by their international color code for easy identification - no effort on your part.

Key Features

- Streamline your testing procedure by performing a complete anesthesia machine PM/efficacy test with one setup
- Avoid confusion and improve efficiency with auto-detection of anesthetic agents and color-matched gas identification
- Reduce bulk and improve ease of transport with a convenient carrying case for the lightweight accessory and gas flow module
- Operate on-the-go with durable, robust design
- Simplify calibration and servicing with one manufacturer for all anesthesia test equipment
- Reduce testing time with 7-in. color touch screen, quick-connect fitting and complete anesthesia hosing accessory kit
- Confidently test with accuracy that meets vaporizer manufacturer recommendations
- Ensure patient safety with automatic detection and measurement of CO2, N2O and five commonly used anesthetic agents

Patient Safety First. Keep your life critical devices running properly.

Hundreds of millions of surgeries were performed worldwide, many of which require general anesthesia. Anesthesia is often administered via inhaled gases delivered by an anesthesia machine. Under-administration can cause unintended intraoperative awareness, wherein patients are partially awake but unable to speak and move. Such incidents can sometimes result in long-term psychological trauma. Over-administration can cause cardiac arrest and sometimes death. To prevent such instances, the ventilator and vaporizer functions of an anesthesia machine need to be routinely tested to ensure patient safety.

One solution for all your anesthesia delivery system and ventilator testing

needs.

Fluke Biomedical offers a solution to test all the functions of your anesthesia machine with the VT900A Gas Flow Analyzer / Ventilator Tester and the . Everything can fit on the worksurface of your anesthesia machine because we've reduced the number of devices you need to perform testing. It all fits in a single carrying case making travel easy. A 7" touchscreen display allows you to see test results numerically or graphically from up to 6' away. Test all day without returning to your desk with all day battery power and onboard memory.

The VT900A Gas Flow Analyzer provides the highest accuracy for testing gas flow and respiratory medical equipment.

The VT900A Gas Flow Analyzer / Ventilator tester can test all types of gas flow equipment, especially those requiring high accuracy in ultra-low flow and ultra-low pressure measurements like anesthesia machines. This analyzer is the only test equipment you need to test your medical gas flow equipment, not just ventilators. A one channel, full range air flow channel automatically compensates for humidity, temperature and pressure reducing setup time and confusion. Further streamline your test procedure, reduce errors and shorten your test time with the ability to create customized test profiles for your specific anesthesia machine model.

Results made easy

The VAPOR Anesthesia Tester is an accessory to the VT900A that expands your testing capability to vaporizers. VAPOR automatically detects the 5 major anesthetic agents, CO2, and N2O, and identifies them by their international color code for easy identification - no effort on your part. Two agents can be detected simultaneously allowing for the identification of failure modes beyond concentration - such as the failure of an interlock system. The addition of VAPOR to the Gas Flow Analyzer family allows you to test an anesthesia machine end-to-end with a single product solution.


FLUKE VT900A GAS FLOW ANALYZER
Airway
Breath Views
High Pressure
Low Pressure
Ultra-Low Pressure
Ultra-Low Flow
Menus
FACTORY PROFILE
Anesthesia
Status: Full Accuracy
SEV:
4.89 %
Primary
None:
Secondary
N2O:
CO2:
Off
Sleep
Save
FLOW EXHAUST
EXHAUST

The VT900A + VAPOR Ventilator and Anesthesia Test duo is designed to efficiently and reliably perform a full anesthesia machine PM, from ventilators to vaporizers.

The Fluke Biomedical VT900A + VAPOR is designed to efficiently and reliably perform a full anesthesia machine PM, from ventilators to vaporizers.

One Solution

VT900A + VAPOR is a comprehensive test setup that can be used to test anesthesia machine ventilators and vaporizers. All flow, concentration and pressure parameters are accurately measured without any additional equipment, allowing you to lighten your load and simplify your test procedure. Calibration and servicing is made easy with one manufacturer for all anesthesia test equipment. Streamline anesthesia machine testing and improve efficiency with one test setup to meet all your needs.

Auto-detection to Ensure Patient Safety

VT900A + VAPOR automatically detects and identifies CO2, N2O, sevoflurane, isoflurane, desflurane, halothane and enflurane. Two agents can be displayed simultaneously to comprehensively analyze any anesthesia flow stream making sure that only one agent is being delivered. Automatic agent identification reduces the risk of error and ensures patient safety by eliminating the need for user input and providing a means to test interlock systems and vaporizer contents. Keep patient safety the priority by testing anesthesia machines with equipment you can trust.

Key Features

- Streamline your testing procedure by performing a complete anesthesia machine PM with one test setup
- Avoid confusion and improve efficiency with auto-detection of anesthetic agents and color-matched gas identification
- Reduce bulk and improve ease of transport with a convenient carrying case for the lightweight accessory and gas flow module
- Operate on-the-go with durable, robust design
- Simplify calibration and servicing with one manufacturer for all anesthesia test equipment
- Reduce testing time with 7-in. color touch screen, quick-connect fitting and complete anesthesia hosing accessory kit
- Confidently test with accuracy that meets vaporizer manufacturer recommendations
- Ensure patient safety with automatic detection and measurement of CO2, N2O and five commonly used anesthetic agents

The VT900A + VAPOR Ventilator and Anesthesia Test duo is designed to efficiently and reliably perform a full anesthesia machine PM, from ventilators to vaporizers.

Features	
Weight	0.5 kg
Measured Gases	CO_2, N_2O, HAL, ISO, ENF, SEV, DES
Gas Corrections	Pressure and temperature
Size	191 x 96 x 57 mm
Interface	RS-232
Measurement Technology	NDIR side stream
Warmup Time ISO, full spec	45 sec / 10 minutes
Measurement Time	< 20 sec

Concentration (full accuracy*)		
	Range	Accuracy
CO2 % ABS	0-1	0.1
	1-5	0.2
	5-7	0.3
	7-10	0.5
	10-30	Unspecified
N2O % ABS	0-20	2
	20-100	3

Concentration (full accuracy*)		
HAL % ABS	0-1	0.15
	1-5	0.2
	5-30	Unspecified
SEV % ABS	0-1	0.15
	1-5	0.2
	5-8	0.4
	8-10	0.7
	10-30	Unspecified
DES % ABS	0-1	0.15
	1-5	0.2
	5-10	0.4
	10-15	0.6
	15-18	1
	18-23	3
	23-30	Unspecified
ISO % ABS	0-1	0.15
	1-5	0.2
	5-8	0.3
	8-30	Unspecified
ENF % ABS	0-1	0.15
	1-5	0.2
	5-30	Unspecified

Environmental	
Operating temperature	10-40 °C
Operating humidity	10-90%

* warm-up accuracy is lower than full accuracy

Features	
Battery life hours	8 hrs
Charge time in hours	5 hrs, typical
Memory	internal memory
Connection type	USB, Micro-B device port
Weight	3.6 lb (1.6 kg)
Product dimensions (L x W x H)	23 x 18.5 x 8 cm (9.05 x 7.28 x 3.15 in)
Display	7 in (17.8 cm)
Single full-range channel	√
Ultra-low flow ports	±750 ml/min
Ultra-low pressure port	0 to 10 mbar

Flow	
Full range flow channel (includes both low and high flow, flow specifications are with laminar flow input)	
Range	0 to ±200 slpm
Accuracy	±2.0 % or 0.04 slpm
Range	200 to 300 slpm, -200 to -300 slpm, -22 to - 14 slpm, +7.5 to +9.5 slpm
Accuracy	±2.5% of rdg

Features	
Ultra-low flow channel	
Range	±750 ml/min
Accuracy (air)	±1.7 % or 0.01 slpm
Volume	
Range	±100 l
Accuracy	±2.0 % or 0.02 l
Pressure	
High pressure	
Range	-0.8 to 10 bar
Accuracy	±1 % or ±0.007 bar
Differential low pressure	
Range	±160 mbar
Accuracy	±0.5 % or ±0.1 mbar
Ultra-low pressure	
Range	0 to 10 mbar
Accuracy	±1 % or ±0.01 mbar
Airway pressure	
Range	±160 mbar
Accuracy	±0.5 % or ±0.1 mbar
Barometric pressure	
Range	550 to 1240 mbar
Accuracy	±1 % or ±5 mbar

Features	
Other	
Temperature	
Range	0 to 50 °C
Accuracy	±0.5 °C
Resolution	0.1 °C
Humidity	
Range	0 to 100 % RH
Accuracy	±3 % RH (20 to 80 % RH) ±5 % RH (20< or >80 % RH)
Oxygen	
Range	0 to 100 %
Accuracy	±1 %
Breath parameters	
Inspiratory tidal volume range	0 to 60 l
Inspiratory tidal volume accuracy	±2.0 % or 5 ml
Expiratory tidal volume range	0 to 60 l
Expiratory tidal volume accuracy	±2.0 % or 5 ml
Minute volume range	0 to 100 l
Minute volume accuracy	±2.0 % or 5 ml
Breath rate range	1 to 1500 bpm
Breath rate accuracy	±1 %
Inspiratory to expiratory time ratio (I:E) range	1:300 to 300:1

Features	
Inspiratory to expiratory time ratio (I:E) accuracy	±2 % or 0.1
Peak inspiratory pressure (PIP) range	±160 mbar
Peak inspiratory pressure (PIP) accuracy	±0.75 % or 0.1 mbar
Inspiratory pause pressure range	±160 mbar
Inspiratory pause pressure	±0.75 % or 0.1 mbar
Mean airway pressure range	±160 mbar
Mean airway pressure accuracy	±0.75 % or 0.1 mbar
Positive end expiratory pressure (PEEP) range	±160 mbar
Positive end expiratory pressure (PEEP) accuracy	±0.75 % or 0.1 mbar
Lung compliance range	0 to 1000 ml/mbar
Lung compliance accuracy	±3 % or 0.1 ml/mbar
Inspiratory time range	0 to 60 s
Inspiratory time accuracy	0.02 s
Inspiratory hold time range	0 to 60 s
Inspiratory hold time accuracy	1 % or 0.1 s
Expiratory time range	0 to 90 s
Expiratory time accuracy	0.5 % or 0.01 s
Expiratory hold time range	0 to 90 s
Expiratory hold time accuracy	0.02 s
Peak expiratory flow range	±300 lpm

Features	
Peak expiratory flow accuracy Peak	±2.0 % or 0.04 lpm
inspiratory flow range Peak	±300 lpm
inspiratory flow accuracy	±2.0 % or 0.04 lpm

Environmental	
Operating temp	10 °C to 40 °C
Storage temp	-20 °C to 60 °C
Operating humidity	10 to 90 % non-condensing 5 to
Storage humidity	95 % non-condensing

Gas corrections	
ATP (ambient temp/pressure, actual humidity)	Air
ATPD (ambient temp/pressure, dry)	Nitrogen (N_2)
ATPS (ambient temp/pressure, saturated)	Nitrous Oxide (N_2O)
STP20 (20 °C temp/pressure 760 mmHg, actual humidity)	Carbon Dioxide (CO_2)
STP21 (21 °C temp/pressure 760 mmHg, actual humidity)	Oxygen (O_2)
STPD0 (0 °C temp/pressure 760 mmHg, dry)	Argon
STPD20 (20 °C temp/pressure 760 mmHg, dry)	Heliox (21 % O_2, 79% He)
STP or STPD21 (21 °C temp/pressure 760 mmHg, dry)	Oxygen/Nitrogen
BTPS (body temp 37 °C/ambient pressure 760 mmHg, saturated)	Oxygen/Nitrous Oxide

Features	
BTPD (body temp 37 °C/ambient pressure 760 mmHg, dry)	Oxygen/Helium

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