

Technical Specifications

- **System:**
 - Method: Breath by Breath
 - Dimensions (LxWxH): 2 units of 126 x 96 x 41 mm each
 - Weight: 950 g, battery, belt system and mask included
 - Data memory: 32 MB flash card (5 hours of data recording)

- **Volume/Gas Measurement**

	Range	Accuracy
Ventilation (VE):	0 to 300 L/min	2% or 0.05 L/min
O ₂ uptake (VO ₂):	0 to 7 L/min	3% or 0.05 L/min
CO ₂ release (VCO ₂):	0 to 7 L/min	3% or 0.05 L/min
RER:	0.6 to 2.0	4%

- **Volume sensor**

Type:	TripleV, flat fan system
Volume:	0 to 10 L
Accuracy:	50 ml or 2%
Resolution:	3 ml
Flow:	0 to 15 L/s
Accuracy:	70 ml/s or 3%
Resistance:	<0.1 kPa/L/s at 15 L/s

- **O₂ analyzer**

Principle:	Electrochemical
Range:	0 - 25% (optionally 0 - 100%)
t ₉₀ :	80 ms (after filtering)
Accuracy:	0.05 vol%

- **CO₂ analyzer**

Principle:	Thermal conductivity
Range:	0 to 10%
t ₉₀ :	80 ms (after filtering)
Accuracy:	0.05 vol%

- **Ambient specifications**

Temperature:	-10°C to +50°C
Pressure:	500 - 1100 mbar
Altitude:	-1.400 to 5.500 m
Humidity:	10 - 95%

- **Battery**

Type:	Lithium-Ion battery
Capacity:	1500 mA
Life:	2 hours
Voltage:	3.6 V
Weight:	45g

- **Telemetry**

Type:	Spread Spectrum, Frequency Hopping, Duplex
Power:	100 mW
Frequency:	2401 - 2495 MHz
Range:	up to 1.000 m, (line of sight)

- **Heart rate with Polar belt**

Application:	Heart rate measurement
Battery:	Built-in Lithium cell, 2.500 h

- **Approvals:**

CE, FDA

- **Options:**

- **Heart rate monitoring, 1-channel, 3 leads, telemetric**

Application:	Heart rate measurement
Leads:	Leads with snap fastener

- **ECG, 8 channels, 12 leads, telemetric**

Application:	ECG recording
ECG leads:	Einthoven, Wilson, Nehb, Goldberger
Frequency:	0.05 -100 Hz
Gain:	5, 10, 20 mm/mV
CMRR:	> 120 dB
Sampling rate:	240 Hz or 500 Hz, 12 leads simultaneously
A/D resolution:	12 bits

- **Option for ECG:**

Patient cable with 4 leads and snap fastener for 2-channel ECG with 6 leads

- **External battery pack**

Batteries:	3 Lithium-Ion batteries
Life:	additionally 6 hours (total: 8 hours)

- **Europe:**

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The entire spectrum of Oxycon Mobile

Exercise testing system

- Mobile cardiopulmonary exercise testing system for on-the-spot recording of cardiopulmonary and deduced parameters such as, for example, VO₂, VCO₂, RER, VEO₂, VE_{CO₂}, PETO₂, PETCO₂, VE, VT, BF, BR, SpO₂ etc.
Polar belt allows determination of: HR, HRR, O₂ pulse
- Breath-by-Breath and Intra-breath data acquisition.
- Real-time telemetric monitoring and data storage to internal SD memory card.
- Determination of dynamic Flow-Volume loop at rest and during exercise including superimposition, modification and determination of EELV and/or IC.
- Indirect Calorimetry, Calculation of Cardiac Output and SpO₂ measurement.
- Automatic or semiautomatic Interpretation program based on the decision tree system according to Wasserman.
- Option:
 - 1-channel Heart Rate monitoring, telemetric.
 - 8-channel ECG, 12 leads, telemetric.

Delivery

143250 Oxycon Mobile

- Analyzer unit with O₂ and CO₂ analyzers including Polar belt receiver, SpO₂ input and ambient module for determination of temperature and pressure.
- Battery/telemetry unit with SD memory card including ports for optional ECG and external battery pack.
- Automatic volume and gas calibration unit with telemetric receiver and USB interface (PC).
- TripleV volume sensor with wind shield.
- Coded Polar belt.
- Pulse oximeter, finger and ear clip.
- Headphones for message transmission.
- Shoulder belt system, size M/L for chest and back.
- Complete accessories kit including mask and mouthpieces.
- Pressure reducer with optional refillable calibration gas cylinder (0.8 L).
- Battery charger and batteries.
- Trolley for comfortable transportation.
- JLAB Software and instruction manual.

Options:

- **343905** Notebook and printer.
- **343925** 1-channel heart rate monitoring, 3 leads.
- **343930** 8-channel ECG with patient cable (10 leads).
- **892198** Patient cable with 4 leads for option 343930.
- **343915** External battery pack.
- **841500** Backpack (instead of shoulder belt).
- **853013** Shoulder belt system, size S/M.
- **853015** Shoulder belt system, size L/XL.
- **853012** Shoulder belt system, size XL/XXL.



Included in the delivery:



Hardware

Analyzer unit including O ₂ /CO ₂ analyzer	●
Battery pack and memory card	●
Telemetry unit	●
Unit for automatic volume calibration	●
Manual calibration pump	○
Unit for automatic gas analyser calibration	●
Pressure reducer	●
Digital volume sensor (TripleV)	●
Polar belt	●
Pulse oximeter, finger and ear clip	●
Shoulder belt system	●
Accessories kit including mask and mouthpieces	●
Ambient module, temperature and pressure	●
Trolley for comfortable transportation	●
Notebook and printer	○
Replacement battery pack	○
Analog input/output	○
8-channel ECG, 12 leads, telemetric	○
1-channel heart-rate monitoring, telemetric	○
Bicycle ergometer	○
Treadmill ergometer	○
Network	○

Standard programs

Patient Data	●
Automatic Volume Calibration	●
Automatic Gas Calibration	●
Ambient Conditions	●
Spirometry/Flow-Volume	●
Breath-by-Breath	●
Intrabreath	●
Indirect Calorimetry	●
Cardiac Output acc. to Wasserman	●
High FiO ₂	○
Offline Blood gases/Lactate	●
Resting/Exercise ECG Evaluation	○
Screen and Printer Report	●
File Output (e.g. Excel)	●
PDF Report	○
Layout and Exercise Profile Editor	●
Predicted Value Editing	●
Treadmill and Bicycle Ergometer Control	●

Interpretation Programs

IntelliSupport	●
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● Standard ○ Option

■ Mobile exercise testing wherever you are

