

EXTENDING LIMITS



METAMAX® 3B

Whatever pushes you forward:
The MetaMax® 3B is a spiroergometry system for professional outdoor use designed to meet your individual needs – no matter how exceptional they might be.

Thanks to sophisticated technical features and constant further development the MetaMax® 3B can be used in all disciplines. Regardless of its location in the field, in the air, on the water or near fire, the MetaMax® 3B offers endless options.

Because of it's very low weight, the high wearing comfort and the secure data transmission it ensures the MetaMax® 3B is the first choice for mobile high performance testing.





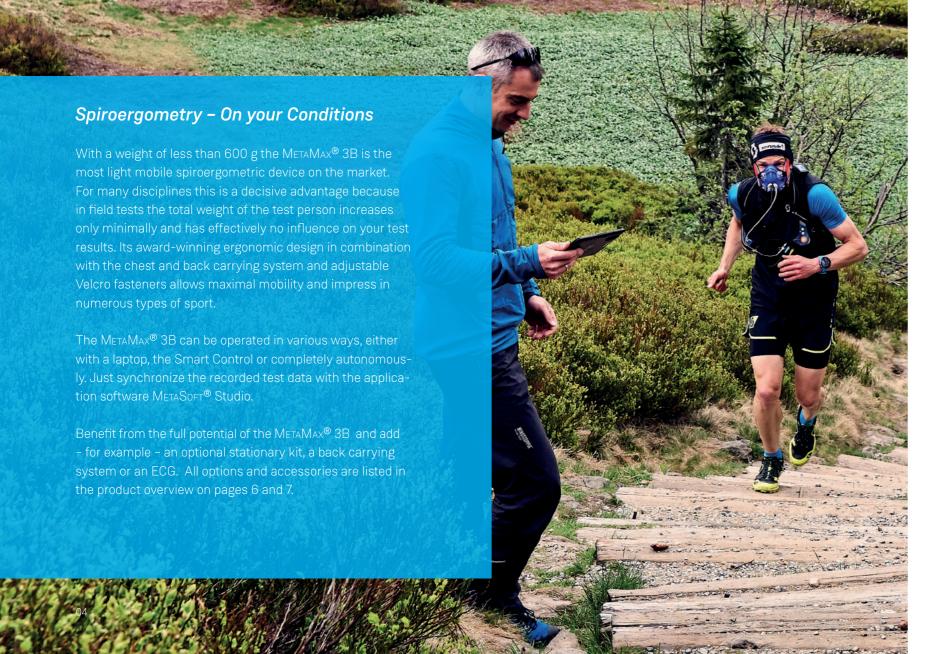


IDITY: 0 TO 95 %

:MPERATURE: -10 °



or more information: http://cortex-medical.co



METAMAX® 3B DESIGNED FOR OUTDOORS

Highlights

- ultralight, mobile Breath-by-Breath system (580 g)
- telemetric range of over 1,000 m (bi-directional telemetry with Bluetooth® technology)
- chest and back carrying system
- convenient control via Smart Control, laptop or as stand-alone
- 6-hour battery life
- 400 hours data storage
- · constant dynamic flow control
- · free definable audio signals

Using GPS

To determine the velocity and location of a test person in a field test the MetaMax® 3B uses a powerful GPS module. The module allows you to calculate velocity and altitude changes and gives an objective picture of the person's stress factors during a field test.

Secure Data Communication

The Long Range Bluetooth® module, developed and enhanced by CORTEX, has a range of over 1,000 m. Only very slight disturbances are caused by interference. In case connection is interrupted, the measured results are securely stored in the MetaMax® 3B. In addition, the system is equipped with Bluetooth® Low Energy. This standard guarantees a maximum compatibility with external sensors, for example heart frequency, SpO2 or a power meter.

METAMAX ® 3B

The Entire Spectrum of the METAMAX® 3B

Configure your MetaMax® 3B according to your Individual needs. A wide range of hard-/software options and benefit packages are available. You can enhance your selected system by adding perfectly matching peripherals and accessories.

olume Transducer	Hardware Options	Packages	Trolley & PC	Ergometer	HF/ECG	PhysioFlow/BD/Sp02	Software Options	Accessories & Spare F
CORTEX volume transducer disposable disposable turbines disposable flow electronics CORTEX volume transducer reusable turbine flow volume electronic	o power supply o extension for volume sensor	performance package	© CORTEX mobile Plus dual monitor	CORTEX bike M	PhysioFlow PhysioFlow license	MSS Energy Metabolism for CPET	face masks pediatric 1	
		Service package TestControlCenter for 2 CPET devices for 3 CPET devices for 4 CPET devices	O CORTEX mobile Plus single monitor O support arm O printer shelf O support arm PC O monitor I laptop Printer		MSS 1-lead belt	PhysioFlow electrodes for 50 tests for 200 tests Tango M2 for use with custo med sensor QRS trigger	MSS Performance Assessment MSS Pre-Operative Risk Assessment MSS Interpretation Assistant by Wasserman EOV Detection PhysioFlow License MSS Spirometry MSS Spirometry MSS Basal- & Resting Metabolic Rate MSS Network License Basic MSS Network License Extension	
					O MC3000 interface O custo cardio 200 O MC3000 interface O custo cardio 300 O MC3000 interface O MC3000 interface O MC30			
	calibration kit gas-on-demand valve gas bottle	e gas-on-demand valve e gas bottle e 3 liter syringe e box canopy e Canopy e blanket e hose e adapter		CORTEX TM Sport 6 fall stop 6 handrail				adapter for face mask sample line
				CORTEX TM High Performance of fall stop of handrail more Cortex TM High Performance Frame Fr				— 0.6 m — 2 m
	— blanket							turbine with sieve – reusableturbine – disposable
	adapter							 100 pieces 500 pieces
	reusable flow sensor							02 sensor MMX3B bacterial filter spirom
				interfaces TrackMaster				PhysioFlow electrodes of for 50 tests for 200 tests
				─ Micromed─ Marquette─ Quinton				ECG electrodes custo med ECG electrodes
				→ Motek Force → TechnoGym →				blue sensor



BENEFIT FROM OUR PACKAGES

The Service Package for Major Security of Investment

The service package includes all consumables (calibration gas, O2 sensors etc.) for the first three years. It gives you high planning reliability for your projects and test studies thanks to an extended warranty period of three years. In addition, your operating costs are much lower by purchasing the service package.

Performance Package MetaMax® 3B

The MetaMax® 3B already comes with the most widely used hardware and software options in the area of sports and preventive medicine. It also includes the CORTEX GPS module and a stationary kit for optimal use of the MetaMax® 3B in a laboratory with an external electricity supply. Furthermore, the package includes a calibration kit and a larger supply of consumables.

CORTEX Warranty Extension

The warranty extension from CORTEX allows you to extend the warranty for your spiroergometry system at any time and as often as you wish. CORTEX offers you attractive warranty packages for the systems depending on scope and duration. The warranty includes free of charge repair of the device, trouble shooting of hard- and software as well as regular software updates.

For more information on the terms of the warranty extension please go to:



or more information: http://cortex-medical.com

CONNECTIVITY

CORTEX treadmill TM

The CORTEX treadmill TM combines functionality and design at an outstanding price-performance ratio. Two basic versions are available: with running surfaces of $53 \text{ cm} \times 161 \text{ cm}$ or $73 \text{ cm} \times 172 \text{ cm}$ plus various add-ons.

CORTEX bike M

Due to its ergonomic design with an open frame, low entry and the stable aluminum platform, the CORTEX bike M is a perfect all-rounder.

Additional Ergometers and Treadmills

Connect our systems to more than 40 different ergometers and treadmills. Based on special software interfaces you can easily connect our spiroergometry solutions to a continuously increasing number of bike / arm ergometers and treadmills (such as: Ergoline, Cyclus 2, h/p/cosmos, Woodway or Lode). Upon special request we also offer connections to additional devices. Just give us a call.

Electrocardiograms (ECGs)

The perfect symbiosis between spiroergometry and ECG: benefit from the specific advantages of a bidirectional interface and combine our spiroergometry solutions with the ECGs made by custo med.

Numerous advantages such as simplified operational steps, a synchronized cursor or an easier exchange of variables enable an especially intuitive reporting, thereby enhancing your test and diagnostic options.

Besides custo med's ECGs you can select alternative ECG connections. For more information please refer to pages 6 and 7.

Wireless 3-lead ECG from custo med

The custo guard allows a user-friendly 3-lead ECG measurement when performing laboratory and field tests.

METASOFT® STUDIO MAKES COMPLEXITY EASY

The MetaSoft® Studio combines the complexity of spiroergometric examinations with the most intuitive usability in a unique way.

It is impossible to give a feeling of the easy and intuitive data collection and test evaluation MetaSoft® Studio offers. To put it briefly:

You have to see and test MetaSoft® Studio by yourself.

Please contact us to arrange an appointment for a product presentation to see what the software is all about. To get a first impression, watch our short video tutorial:







CORTEX Quality Guarantee

The top quality of CORTEX products and services is the key factor of our success and represents a central brand promise. Since founding our company almost 30 years ago, we stay for:

"Fast realization of innovative ideas, supported by excellent services, now and in the future".

We and all our CORTEX partners work according to the world wide quality and security standards of medical products.

The Entire Spiroergometry Variety

Visit our website www.cortex-medical.com and get to know the wide range of products offered. Or ask for additional brochures. Besides our powerful mobile and portable spiroergometry systems we also offer customized solutions. Share your ideas and tell us what you want!









METAMAX® 3B TECHNICAL DATA

02 Sensor

- · type: electro-chemical fuel cel
- range: ≤ 25 Vol %
- accuracy: +/- 0.1 Vol %
- · calibration: every 14 days

CO2 Sensor

- type: Infrared (NDIR)
- · range: ≤ 13 Vol %
- accuracy: +/- 0.1 Vol %
- calibration: 1x per month

Volume Turbine, Reusable

- flow: < 20 1/e
- accuracy: +/- 2 %
- resistance PEF: ≤ 0.30 kPa/I/s @ 20 I/s
- calibration: 1x dails

Volume Turbine, Disposable

- flow: < 14 l/s
- · accuracy: +/- 3 %
- resistance PFF: < 0.36 kPa/l/s @ 14 l/s
- · calibration: not neccessary

Heart Rate

smart BT | 3-lead ECG (optional)

Telemetry

- · range: > 1 000 m
- PC interface: USB 2.0 with Long
 Range Bluetooth receiver or
 Bluetooth USB adapter

Operating Conditions

- temperature: -10 ° to +40 °C
- ambient pressure: 500 to 1.050 mbar
- · at atmospheres: ≤ 25 % 02
- relative humidity: ≤ 95 % (non condensing)

Physical Specifications

- dimension (LxWxH): 2x (120 x 110 x 45 mm
- weight: 580 g (without battery)

Electrical Specifications

- PC interface: Bluetooth® 2.
- power supply:

Quality Management

EN ISO 13/85

Conformity

- MDD 93/42/EEC
 MDR (FU) 2017/745 Art. 120
- EN 60601-1; EN 60601-1-2; EN ISO 10993-1; EN 62366; EN 62304; EN ISO 14971 EN ISO 15223-1: EN ISO 23747: EN ISO 26782

System Requirements Operating System

Windows 7, 8, 10 (32 or 64 Bit)
 Windows Server 2008, 2012 (64 Bit), 2016 (64 Bit)

errors and / or other errors excepted. Photographs and figures ed in this document. CORTEX Biophysik GmbH 2017.