

From one source



The overall answer

Med-Tronik lays the essential foundations for performance diagnostics:

We have incorporated our many years of measuring and testing experience in the individual design and manufacture of the new Powerlact® measuring device.

Lactware® Windows software based on acknowledged sports science research has long since established itself on the market with best results.

Retailer's stamp:



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To suit everyone

Med-Tronik offers individual solutions whether in a single device or the complete package. You choose what you need.

Powerlact®

A mobile hand-held measuring device with battery and brief introduction in practical case.



Powerlact® Basic-Set

For everyone who wants to start measuring straight-away! The basic set contains all the equipment you need.

Powerlact®-Lactware®-Paket

For the more ambitious who want to make the most of all performance diagnostic options. In order to ensure personal satisfaction and the satisfaction of others by achieving optimal training success rates. The evaluation software is available in 3 versions and 2 modules. Simply contact or visit us at www.lactware.de should you have any further queries.



Accessories

Measuring strips, single use lancets MEDLANCE®, USB-IrDA adaptor and the reference book is all you need!



Technical Features

- Enzymatically amperometric procedure
- Straightforward, fully automated measuring
- Low operating costs
- Entirely user-friendly menu control with a range of text displays (German, English and French) to choose from in the graphics display
- Total quantity of blood required (0.5 µl)
- Short measuring time (30 seconds)
- Data transmitted bidirectionally onto a PC by means of an infrared interface (IrDA). Total mobility guaranteed, e.g. in a field test without PC. USB-IrDA adaptor available on request.
- Stage tests possible by simply pressing a button
- Measurement with audible signal
- Wide measuring range from 0.5 to 25 mmol/l
- High-capacity measuring value storage for 500 measurements or selective measuring data recorded in 20 subjects
- Automatic temperature recordings
- Date and time mode with real time clock



Powerlact® and Lactware® a bloody good team!



...also suitable for beginners
Windows®-Software



Lactate measuring easy - accurate - fast

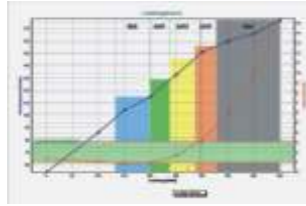
Based on acknowledged sports science information for straightforward, swift and overall evaluation of performance diagnostics by measuring lactate levels, pulse rates and VO₂



Lactat measurement

Why exactly?

The characteristics of the exercise curve with lactate threshold values are an accurate indicator of an athlete's training stamina. It serves as a basis for establishing individual, tailor-made training programmes.



For what purpose and for whom?

- For controlled training from beginner through to top athlete level
- For sports medical care in physiotherapy and rehabilitation
- As competent service provider in fitness studios and organisations
- For a targeted decomposition of body fat in overweight subjects.

Why Lactware® ?

Lactware® offers a simple, swift and overall approach for the scientific evaluation and documentation of performance diagnostic measuring data. Similarly, regardless of the way in which performance diagnostics are carried out, the athlete receives a relevant and graphically corroborated analytical result based on performance capacity and derived training recommendations, within minutes of completing the test.

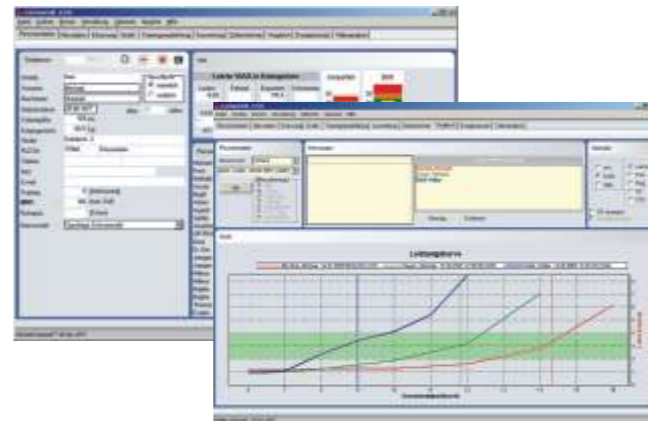
Why Powerlact®?

The mobile hand-held measuring device with disposable sensors offers optimal ease of use at a reasonable price and low operating costs (e.g. compared with photometers).



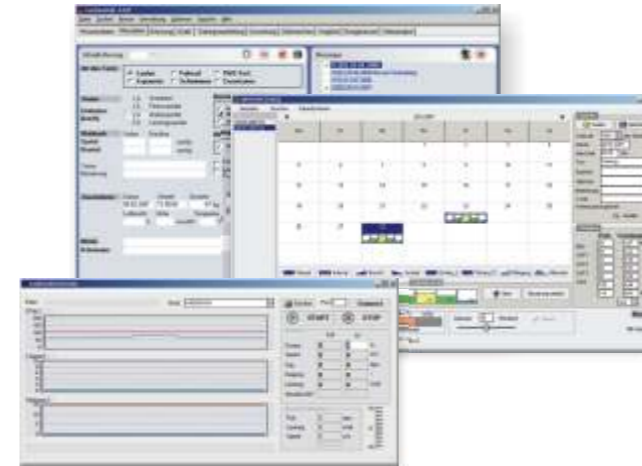
Windows-Software from...

- Lactate kinetic analysis with performance curve
- Evaluation and comparison of lactate levels, heart rate, max. VO_2 , recovery pulse rate and blood pressure
- Multi-user database
- graphic performance comparison of various athletes and/or an athlete during various training phases
- Treadmill, bicycle, field, swimming, PWC, cross, nordic walking and ergometer tests are supported
- Interface for e.g. Woodway®, Sprintex®, h/p/cosmos® treadmills including training programme generator based on performance diagnostics
- Interface and controlling of e.g. LODE®, Schiller®, ERGO-FIT, Technogym and other ergometers
- Interface for Powerlact® and lactate measuring devices from Diaglobal, Dr. Lange, Dr. Müller, and SensLab)
- Available in English, French, German, Spanish, Italian, Hungarian, Polish and Dutch
- Timer with measuring procedure (voice controlled)



General view of database and graphic performance comparison

...years of experience



- Calculation of the IANT (Individual Anaerobic Threshold) using 12 different models (including Mader, Stegmann, Freiburg Model, Dickhuth, Kindermann, Simon and various angular models, etc.)
- Curve fitting (interpolation algorithm)
- Training recommendation with details of optimal workout range
- Workout planning- and control with calendar function
- Target time calculation - on the basis of lactate values finishing times for various distances (e.g. from 5000 m up to marathon) can be forecast with high accuracy
- Graphically appealing, well arranged and personalised analysis print-out
- Pacer for field tests (with various adjustment options) and audible signals
- Video port capable of treadmill analysis for physiotherapists and orthopedists with an option for synchronised, comparative video recording
- Calculation of energy exchange for endurance athletes and weight reduction for fitness athletes.
- BMI evaluation and adipose quotient

To suit everyone

Lactware® attributes

	Private	Public	Prof.
Multifunctional performance diagnostics	■	■	■
Evaluation of the IANS <small>individual anaerobic threshold</small>	■	■	■
Various threshold value models+ curve fit	■	■	■
Evaluation of body fat and BMI	■	■	■
Calculation of target times <small>(e.g. for marathons)</small>	■	■	■
Voice controlled measuring procedure	■	■	■
Graphic analytic printout <small>with training recommendation</small>	■	■	■
Energy exchange calculations	■	■	■
Fat burner <small>(weight loss calculations)</small>	■	■	■
Protocol print-out <small>numerous print-out options</small>	■	■	■
Many treadmill and ergometer interfaces	■	■	■
Interface for lactate-measuring devices	■	■	■
Graphic performance comparison <small>(with no limitations)</small>		■	■
Multi-user database <small>(unlimited storage and administration options)</small>		■	■
Pacer for field tests		■	■
Modul Training	□	□	■
Modul Plus (video recording)		□	■

□ Optional ■ Implemented

Lactware® - Modul Training

Trainingplan, -controller and -calender incl. treadmill- and ergometer interface as well as comprehensive training documentation.

Lactware® - Modul Plus (video recording)

Photo and video analysis with print-out protocol, angle- and synchronised video function.