

Cyclus2 - Technical data

Operation modes:

Load types: power controlled (Watt),

torque controlled (Nm), isokinetic (cadence),

inclination (simulation of downhill force, rolling friction, air resistance)

Controls: manual,

program controlled, by recorded track profiles,

by external systems (CPET, ECG, VirtualTraining)

Integrated tests: OBLA Test,

Sinus Test,

Wingate Anaerobic Test,

Isokinetic Maximum Strength Test,

Maximal Cadence Test,

PWC-Test

Maximal power: 3000 Watt (short-term)

Compatibility:

Cassette: 10 speed cassette Shimano (11, 12, 13, 14, 15, 16, 17, 19, 21, 23), other types of

cassettes or other gradations on request

Clamping front: quick release skewer 9mm x 100

optional through axle QR12 \times 100, QR15 \times 100, QR15 \times 110 and QR20 \times 110

Clamping back: quick release skewer 9mm x 135

optional through axle 12 x 142 with specialised spanning adapter

Axial distance: min. 80cm, max. 119cm (different distances on request)

Hand bike: special designed hand bike version and special rack available

Track bike: special optimized sprint version without freewheeling and sprocket 12T

available

Heart rate sensor: ANT+ heart rate transmitter (e. g. Garmin)

Accuracy, Calibration:

Power: maximal error 2% of reading (for power values less than 100 Watt maximal 2

Watt)

Cadence: error maximal ± 1 RPM

Calibration: dynamic calibration, incl. Calibration protocol, recommended on a yearly basis

Mechanical feedback: HBM T5 torque flange (accuracy class 0, 1)



Interfaces:

2 x USB: for USB-stick, printer, LactateSCOUT, handle bar switch or external keyboard

1 x RS232: for external control (e. g. CPET, ECG), LactateSCOUT, BIOSEN

1 x LAN: 100/10MBit Ethernet for remote control via VNC, external control (e. g. CPET,

ECG, VirtualTraining), network printer

1 x WLAN: optional, 802.11g/ 2.4/5GHz WiFi, for remote control via VNC, external control

(e.g. CPET, ECG, VirtualTraining), network printer

Protocols: Cyclus2-protocol and Ergoline900 emulation on RS232, LAN and WLAN

Printer driver: PCL3, PCL5 compatible (e.g. HP Officejet H470, HP Officejet 100)

PDF, TIFF

Data export: user-defined CSV-format,

CycleOps CSV-format,
TrainingPeaks PWX-format

Track profiles: general GPX-format,

Garmin TCX-format

SRM powermeter SRM-format

General information:

Languages: German, English, French, Italian, Polish, Russian, Spanish, Portuguese, Japanese

Voltage supply:

Power input: 6W typical

Power adaptor: wall power supply 100-240V AC/ 50-60Hz

output voltage 12V DC/ 2,08A,

medical registration according to IEC 60601-1:2005 (3rd Edition)

Internal battery: optional, Ni-MH rechargeable battery 7,2V DC/ 2000mAh

Output connector: on request

Special feature: During pedalling the Cyclus2 remains fully functional without an external

power adaptor and/ or without internal battery

Dimensions, Weight:

Assembly dimensions: approx. 140 x 50 x 105 cm (L x B x H) depending on the type of bicycle used

Weight Cyclus2: approx. 30 kg

Transport case: 76 x 48 x 45 cm (L x H x T) ca. 45 kg inclusive Cyclus2 Standard Version

Shipping dimensions: $79 \times 51 \times 46 \text{ cm}$ (L x H x T) ca. 45 kg stowed in the transportation case with

covering box

52 x 52 x 59 cm (L x H x T) ca. 30 kg in cardboard box