Modern ergometer with multifunctional applications



Highlights

High standards

Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEE compliant and Lode is ISO 9001:2003, ISO 13485:2008 and FDA 510K certified. All medical products comply to MDD 93/42/EEC, incl. IEC 60601-1.

Reliable and reproducible stress tests

The experience of professionals who calibrate many ergometers showed that the Lode ergometers are the most reliable across the complete workload and rpm range and still within specifications even after many years of intensive use.

Various test modes

Besides the hyperbolic (rpm-independent) mode that is used most of the time, the standard control unit offers several other test modes, like the fixed torque mode and the linear mode. These modes can be used in both manual and terminal mode.

Multifunctional

The ergometer can be used in various ergometry settings, enabling a multifunctional deployment.

Easy to clean

The design of the ergometer and the housing material make it very easy to clean.







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In this system, the Angio is supplied with a multifunctional fixation set. With this set, the Angio ergometer is equipped with pedal shoes and can be mounted easily on all Imaging / Physiotherapy / Examination tables that have a standard instrument side rail of 25x10 mm. The adjustability range is 580-860 mm (width) and 20-120 mm (height).

The Angio rehab is standard supplied with a 7" control unit with touch screen. Thanks to the built-in network module, the ergometer can be connected to the Lode Cardiac Rehab Manager Software, Lode Rehab Manager or the Lode Ergometry Manager.

A USB A-B cable for service purposes only will be standard delivered with the product. To connect LEM or LCRM you need a special interface cable that can be ordered under part number 930930.

Features



Extreme low start up load

The extreme low start-up load of 7 watts and the adjustability in small steps of 1 watt make this ergometer perfectly suitable for many different applications. The standard control unit shows multiple ergometry parameters and you can determine your specific default setting and start-up menu.



Accurate over a long period of time

The Lode ergometers are supplied with an electro-magnetic braking mechanism of Lanooy (eddy current). The biggest advantage of this braking system compared to a friction braking system is the absolute accuracy and the accuracy over time. Moreover, friction braking systems have more wearing parts.



Small adjustment steps

The workload of the Lode ergometers is adjustable in steps of only 1 watt. Depending on your wishes, the test operator or the test subject can adjust the workload. The steps of 1 watt are possible in the manual mode as well as within protocols.



RS232 connectivity

RS232 ports enable connectivity to most ECG and ergospirometry devices as well as PC's.



LEM compatible

This product can be used with Lode Ergometry Manager (LEM) software to manage data and to apply specific protocols when a Communication card or Network card is present



LCRM compatible

This product can be used with Lode Cardiac Rehabilitation Manager software (LCRM)



Additional features with PCU

Besides the possibility to program 24 protocols easily, this control unit offers the following

- better monitoring because of the additional and larger display
- a perfect combination with BPM
- possibility to measure SpO2



Versatile Interfacing

Various interface protocols guarantee perfect communication with all commonly known stress ECG and spirometry equipment





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Interconnectivity between Lode products

Connecting Lode products has never been easier! Lode rehab and sports products have a standard Network card:

- To be able to connect the first product to the PC with L(C)RM a Lode proprietary network to PC cable is needed (#930930).
- From the second product onward products can be connected to the previous one, creating a bus network configuration;
- The last product always needs a termination plug to avoid interference and loss of data. Therefore all products with such a network card come with a termination plug.

Benefits

- Lossless data connection
- High bandwidth
- No interference of COM ports
- Daisy chain connection
- Full access of all data in the product to LCRM





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Angio rehab - with Fixation Set for Instrument Rail can a.o be extended with the following options:

Add program function to 7" touch screen for ergometer

Easily programmable



Partnumber: U945835

Colour Display 3.5" - 2nd screen

Multifunctionality



Partnumber: 945819

Blood Pressure with ECG trigger for bicycle ergometer

with ECG trigger



Partnumber: 945828

Heart rate for bicycle ergometers

Heart rate in beats per minute



Partnumber: 945821

SpO2 for control unit with touch panel (bicycle)

Saturation and heart rate



Partnumber: 945823

Adjustable cranks

Optimal force application



Partnumber: 928804

Pedal shoes (pair

Extra stability during cycling



Partnumber: 917803

Pedal shoes pediatric

Pedal shoes for childen



Partnumber: 917833

Pedal shoes extra large (pair)

For large feet sizes



Partnumber: 917834

Handgrip fixation set

Handgrip fixation set



Partnumber: 917822

Handgrip fixation set

Versatile ergometry



Partnumber: 917823

Network module connection cable

Easy connection



Partnumber: 930930

Wheeled frame for Angio Ergometer w. fixation set

Easy installation of the Angio ergometer



Partnumber: 967800





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Specifications

Workload	
Minimum load	7 W
Maximum peak load	1000 W
Minimum load increments	1 W
Maximum continuous load	750 W
Hyperbolic workload control	~
Linear workload control	~
Fixed torque workload control	~
Maximum rpm independent constant load	150 rpm
Minimum rpm independent constant load	30 rpm
Optional heart rate controlled workload	~
Electromagnetic "eddy current" braking system	~
Dynamic calibration	~
Accuracy	
Workload accuracy from 7 to 100 W	3 W
Workload accuracy from 100 to 500 W	3 %
Workload accuracy from 500 to 1000 W	5 %
Comfort	
Pedal shoes	~
User Interface	
Readout Distance	~
Readout RPM	~
Readout Heartrate	~
Readout target HR	~
Readout Energy	~
Readout Torque	~
Readout Time	~
Readout Power	~
Set Display	~
Set Resistance	~
Set P-Slope	~
Set Mode	~
Manual operation mode	~
Preset protocol operation mode	~
Analog operation mode	~
Terminal operation mode	~
External control unit	~
Selfdesigned protocol operation mode	~

Dimensions

Maximum table width	920 mm	36.2 inch
Minimum table width	580 mm	22.8 inch
Product length (cm)	54 cm	21.3 inch
Product width (cm)	68 cm	26.8 inch
Product height	73 cm	28.7 inch
Product weight	26 kg	57.3 lbs
Power requirements		
VAC	100 - 240 V	
Phases	1	
Frequency	50/60 Hz	
Power consumption	160 W	
Power cord IEC 60320 C13 with CEE 7/7 plug	~	
Power cord NEMA	×	
Standards & Safety		
IEC 60601-1:2012	~	
ISO 13485:2003 compliant	~	
ISO 9001:2008 compliant	~	
Certification		
CTüVus according to NRTL - pending	~	
CB according to IECEE CB - pending	~	

CE class Im according to MDD93/42/EEC -

Order info

Partnumber: 967925



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^{*}Specifications are subject to change without notice.