Modern ergometer with multifunctional applications









Highlights

Easy to operate

For Lode products this means:

- easy to connect
- easy to move around
- easy user interface

Reliable and reproducible stress tests

The experience of professionals who calibrate many ergometers shows 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.

High standards

Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEE compliant and Lode is ISO 9001:2015, and ISO 13485:2016 certified. All medical products comply to MDD 93/42/EEC, incl. IEC 60601-1.



Additional features with PCU

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

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

Multifunctional

The ergometer can be used for both arm and leg ergometry.





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With the stand for the Angio, the ergometer can move up and down over a range of 140 cm. With the stand it is easier to move your arm Ergometry setting to another room, because it can stand free. For heavy use during arm-ergometry it is recommended to fixate the stand to the wall with the supplied parts. When is it not secured to the wall, the stand should be installed together with the optional stabilisation leg (#967815).

Together with the automatic stand the Angio becomes an ergometric unit that can be used for both arm and leg Ergometry (this setting is standard supplied with handcurbles). Its compact design makes it universally applicable for ergometric studies in those sectors in which standard ergometry cannot be used. The Angio operates independent of pedaling speed in the range of 7 - 1000 watt.

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



Small adjustment steps

The workload of the Lode ergometers is adjustable in steps of only 1 watt. Depending Vatt 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.



Extreme low start-up load

The extreme low start-up load of 7 watts and the adjustability in small steps of 1 watt **Vatt** 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.



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 is present





LCRM compatible

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



Customer specific display setting

Display settings are adjustable according to your specific requirements: each individual has its specific wishes about the parameters to be displayed. This can easily be adjusted with the Lode ergometers.

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). This cable is standard included with Lode Rehab Software.

- 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 automatic stand can a.o be extended with the following options:

Handgrips (pair)	Electric adjustable chair for arm ergometer	Communication Module	SpO2 for control unit with touch panel (extra long cable)	Assistive start up system
Versatile ergometry	Comfortable seating position in front of the	Connect to ECG and spirometers	Oxygen saturation	Lowest possible startup power
		C		Attack Rays
Partnumber: 917812	Partnumber: 917813	Partnumber: 945850	Partnumber: 945822	Partnumber: 960805
Colour Display 3.5" - 2nd screen Multifunctionality	Network module connection cable Easy connection	SpO2 for control unit with touch panel - ordered afterwards Ordered afterwards	Add program function to 7" touch screen for ergometer Easily prepare and execute tests and	Extra wide access for wheelchairs Easy access
Partnumber: 945819	Partnumber: 930930	Partnumber: P945822	Partnumber: U945835	Partnumber: 967805
Stabilisation leg for Angio with Automatic Stand	Smart heart rate	Adjustable cranks	Custom pack Powercable 100 - 127 V for ergometers	Pedal shoes (pair) for Corival (Recumbent)
Optimal safety and stability	Heartrate available within an extreme wide	Optimal force application	Easy connection	Extra stability during cycling
Partnumber: 967815	Partnumber: 945833	Partnumber: 960804	Partnumber: 945892	Partnumber: 967835



Modern ergometer with multifunctional applications **Specifications**

Workload

Workload range fixed torque	0,1 - 70 Nm	
Minimum load	7 W	
Maximum peak load	1000 W	
Minimum load increments	1 W	
Maximum continuous load	750 W	
Hyperbolic workload control	\checkmark	
Maximum rpm independent constant load	150 rpm	
Minimum rpm independent constant load	30 rpm	
Electromagnetic "eddy current" braking system	\checkmark	
Dynamic calibration	\checkmark	
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		
Adjustability range height	1400 mm	



Jser Interface

User Interface	
English user interface	\checkmark
Chinese user interface	\checkmark
Croatian user interface	\checkmark
Czech user interface	\checkmark
Danish user interface	\checkmark
Dutch user interface	\checkmark
Finnish user interface	\checkmark
French user interface	\checkmark
German user interface	\checkmark
Greek user interface	\checkmark
Hungarian user interface	\checkmark
Italian user interface	\checkmark
Japanese user interface	\checkmark
Korean user interface	\checkmark
Latvian user interface	\checkmark
Lithuanian user interface	\checkmark
Norwegian user interface	\checkmark
Polish user interface	\checkmark
Portugese user interface	\checkmark
Romanian user interface	\checkmark
Russian user interface	\checkmark
Spanish user interface	\checkmark
Swedish user interface	\checkmark
Turkish user interface	\checkmark
Ukrainian user interface	\checkmark
Readout Distance	\checkmark
Readout RPM	\checkmark
Readout Heartrate	\checkmark
Readout target HR	\checkmark
Readout Energy	\checkmark
Readout Torque	~
Readout Time	~
Readout Power	~
Set Display	~
Set Resistance	\checkmark
Set P-Slope	~
Set Mode	\checkmark
Manual operation mode	\checkmark
Preset protocol operation mode	~
Analog operation mode	~
Terminal operation mode	~
External control unit	~
Selfdesigned protocol operation mode	~
- ' '	





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Dimensions		
Product length (cm)	84 cm	33.1 inch
Product width (cm)	82 cm	32.3 inch
Product height	223 cm	87.8 inch
Product weight	95 kg	209.4 lbs
Width between stand	67 cm	
Power requirements		
V AC	100 - 240 V	
Phases	1	
Frequency	50/60 Hz	
Power consumption	250 W	
Power cord IEC 60320 C13 with CEE 7/7 plug	~	
Power cord NEMA	×	
Standards & Safety		
IEC 60601-1:2012	~	
ISO 13485:2016 compliant	~	
ISO 9001:2015 compliant	~	
Certification		
CE class Im according to MDD93/42/EEC	~	
CE class of product with optional SpO2	lla	
CE class of product with optional BPM	lla	
CB according to IECEE CB	~	

Order info

Partnum	nber:	

*Specifications are subject to change without notice.

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