Angio rehab - with electrical adjustable wall fixation
Modern ergometer with multifunctional applications

Highlights

High standards
Lode is a socially and environmentally responsible company. All Lode products are RoHS/WEEE 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.

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.

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
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The wall fastening consists of a vertical rail with hang-up mechanism which makes it possible to move the Angio up and down electrically over a range of 70 cm. Handgrips are standard included in this combination. The Angio is an ergometric unit that can be used for both arm and supine ergometry. 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

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.

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.

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 is present.

LCRM compatible
This product can be used with Lode Cardiac Rehabilitation Manager software (LCRM)
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 electrical adjustable wall fixation

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Angio rehab - with electrical adjustable wall fixation can a.o be extended with the following options:

<table>
<thead>
<tr>
<th>Pedal shoes (pair)</th>
<th>Pedal shoes pediatric (pair)</th>
<th>Pedal shoes extra large (pair)</th>
<th>Adjustable cranks (will be replaced by #960804 in February 2020, will be replaced by #960804 in February)</th>
<th>Handgrips (pair)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra stability during cycling</td>
<td>Pedal shoes for children</td>
<td>For large feet sizes</td>
<td></td>
<td>Versatile ergometry</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SpO2 for control unit with touch panel (extra long cable)</th>
<th>0-Watt start-up system</th>
<th>Colour Display 3.5&quot; - 2nd screen</th>
<th>Network module connection cable</th>
<th>SpO2 for control unit with touch panel - ordered afterwards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxygen saturation</td>
<td>Lowest possible startup power</td>
<td>Multifunctionality</td>
<td>Easy connection</td>
<td>Ordered afterwards</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Add program function to 7&quot; touch screen for ergometer</th>
<th>Bluetooth Smart heart rate</th>
<th>Adjustable cranks - model 2020 (available February 2020)</th>
<th>Custom pack</th>
<th>Powercable 100 - 127 V for ergometers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easily programmable</td>
<td>Heartrate available within an extreme wide</td>
<td>Optimal force application</td>
<td>Easy connection</td>
<td>Easy connection</td>
</tr>
<tr>
<td>Partnumber: U945835</td>
<td>Partnumber: 945833</td>
<td>Partnumber: 960804</td>
<td>Partnumber: 945892</td>
<td></td>
</tr>
</tbody>
</table>

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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: ✓
- 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
- Adjustability range height: 700 mm

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
- Product length (cm): 68 cm
- Product width (cm): 42 cm
- Product height: 104 cm
- Product weight: 55 kg

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: X
- 100 - 240 V 50/60 Hz (160 Watt): ✓

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: IIa
- CE class of product with optional BPM: IIa
- CB according to IECEE CB: ✓

Order info
- Partnumber: 967923

*Specifications are subject to change without notice.