

Product	Order number
Labsurler Gzadion* Without block	011-101
Labcycler Basic Without block	011-103
Inter System Copy Cable	011-702
Gradient Upgrade (Only for Labcycler Basic)	011-801
Thermoblock 384 For microtiterplates 384-well	012-101
Thermoblock 48 For reaction tubes of 0.5 ml	012-102
Thermoblock 96 For reaction tubes of 0.2 ml and microtiterplates 96-well	012-103
Triple Block Without Passive Lid	012-104
Passive Lid 3 lids are necessary for Triple Block application	012-201
Sealing Pad for Thermoblock 384	012-701

Ordering information





Cycler-Technology for life. **Lab**cycler SENSQUEST Biomedical Electronics Hightech Thermocycler www.sensoquest.com

Labcycler

The SensoQuest team has been developing and making thermocyclers since 1990. SensoQuest launched a new generation of thermocyclers in 2005. Since this time more and more customers are working world wide with the Labcyder

The Labcycler features are a truly intuitive user interface with a coloured touchscreen, a nice design and solid construction. All that comes with a unique block changing system, giving full flexibility for present and future applications. A choice of three gold plated silver blocks was designed for high speed, yet low energy consumption and good temperature uniformity. These are complemented by the Triple Block, which lets you run three independent processes on one machine.

Sustainability and good value were prime considerations. The peltier elements were tested to 600,000 cycles without any failures, giving at least 20 years of lifetime even under the harshest conditions. The silver blocks are electroformed for lowest heat capacity and best heat conductance. This allows high speed with a maximum power of only 350 Watts. The average during a typical run is less than 150 Watts. The result is good performance with low energy consumption, low carbon dioxide footprint, less heat in the lab and, last but not least, less noise from the cooling fans.

Precision is further enhanced by a 6-zone temperature regulation that corrects for any differences between the 6 peltier elements. Each block has its own processor with a continuously self-calibrating temperature measuring circuitry. Indefinite cooling at 4 °C is of course possible, the blocks even go down to minus 5 °C.

Although the user interface is quite self-explanatory, a context sensitive online help function further assists you, making the manual a rarely used item.

Programs can be copied between two Labcyclers via a cable, making it easy to keep several of them "in line". The password administration allows saving programs and folders up to 64 users.

Of course, there is an automatic restart after a failure of the power line. The program will continue with the last denaturation step to prevent false annealing.



SENSQUEST **Biomedical Electronics**

TFT Touchscreen

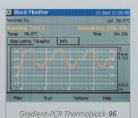
The Labcyder has a **TFT display with a touchscreen** featuring alphanumeric and function keys. Familiar buttons and icons enable an intuitive use. The interface "speaks" English and German.

Graphic monitoring allows tracking of the PCR process for single and Triple Blocks. The Triple Block system is displayed with the TFT touchscreen separated in three parts.

Block Monitor verview Block 1 Block 2 Block 3		10.5ept 12:57:1 Ltd 24.3	
lock; 312	1		
Info	Graphic		
Temp	23.9°C	Temp 23.9°C	Temp 23.9°C
Temp	23,9°C	Temp 23.9°C	Temp 23.9°C
Temp	23.9°C	Temp 23,9°C	Temp 23.9°C
Temp	23.9°C	Temp 23.9°C	Temp 23,9°C

TFT 1/4 VGA illuminated colour display

- > 320* 240 Pixel, 5.7"diagonal
- Languages: English and German
- Context-sensitive help function
- Alpha-keyboard on touchscreen
- Graphic monitoring of PCR process



Thermoblocks

With the unique quick block changing system, a block change takes one hand and ten seconds.

All thermoblocks have their own processor with 6 separately controlled peltier elements for extraordinary temperature uniformity at high heating and cooling

The temperature measuring system is entirely in the block and continuously selfcalibrating, ensuring precise and identical operation of a block in any machine.

Thermoblock 48	Thermoblock 96	Thermoblock 384
(6)	Material: Electroformed gold plated silver Thermal conductivity: 429 W/mK Heating rate 4.2 °C/s · Cooling rate 3.6 °C/s	
48 well block	96 well block	384 well block
8 zone gradient	12 zone gradient	24 zone gradient
0.5 ml tubes	0.2 ml tubes	
Gr	adient capable: 40 °C, \pm 20 °C from the left to the ri	ight
-	96 Well microtiterplates	384 Well microtiterplates
	Minimum reaction volumina	
20 μΙ	10 µl	3 µl

Automatic Lid

The heated lid is controlled by an electric motor. Pressure and temperature are fully programmable. Maximum temperature is 105 °C.

It quickly reaches its uniform temperature through high power.

During a programmed or manual pause the lid comes up to give access to the probes for hotstartprocedures. The temperature and force of the lid can be preselected for each program.

