

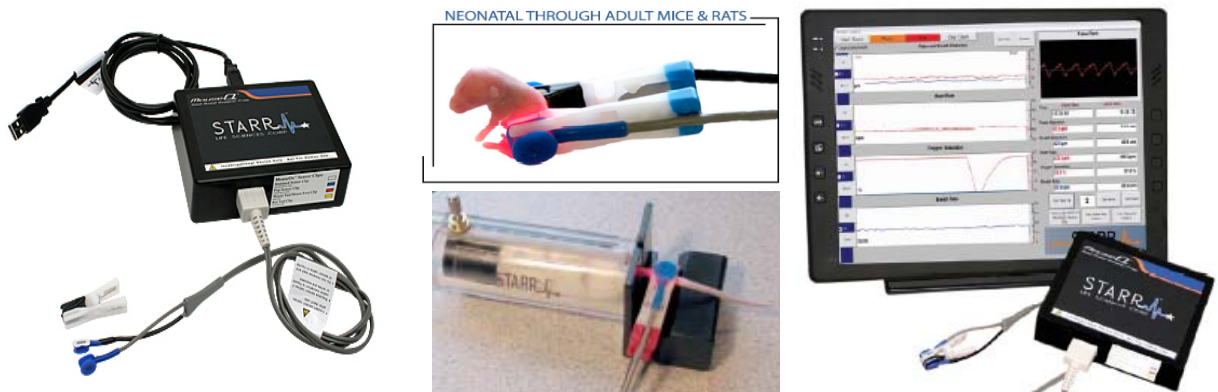
35 Weaver Street, Scarsdale, New York 10583. U.S.A.

世界第一个小动物脉搏血氧仪

美国 Starr Life Sciences Inc 公司

MouseOx 脉搏血氧仪为非侵入性地测量小鼠或大鼠的脉率、呼吸率、脉冲幅度、呼吸幅度和血氧饱和度。使用在心肺研究中或作为一个监视设备在动物手术期间， MouseOX 系统是市场上唯一的小动物脉搏血氧仪，非侵入性获取啮齿动物的血氧饱和度在 90 到 900 BPM 范围内。

MouseOx 系统包括三个组分： MouseOx 设备、 Starr 链接模拟输出模块和 Starr 联接导管。



World's First Rodent Pulse Oximeter

The MouseOx pulse oximetry system for mice and rats from Starr Life Sciences Inc. outputs oxygen saturation data non-invasively. Ideal for use in cardiopulmonary research studies or as a monitoring device during animal surgery, the MouseOX system is the only product on the market suitable for acquiring rodent non-invasive pulse oximetry in the range of 90 to 900 BPM.

The MouseOx system consists of three components: the MouseOx device, Starr-Link Analog Output Module and Starr-Gate Restraining Tubes. The MouseOx Oximeter acquires a high-resolution pulse plethysmography signal from the rodent in real time and transfers the signal to a Windows computer. The MouseOx Oximeter provides seven analog outputs of the MouseOx pulmonary parameters directly to your computer systems. MouseOx Oximeter are used to restrain awake or anesthetized animals during the recording.

心肺监测参数：

监测脉率和血氧饱和度在 90 到 900 BPM 范围内(每分钟心跳， Beat per minutes, BPM)

- 监测范围： 0% 到 100% 动脉血氧饱和度；
- 监测误差： <1.5 % 横跨整个监测范围；
- 监测反应时间： 动脉血氧饱和度实时向用户报告，在每次心跳以后，0.72 秒屏幕刷新，刷新屏幕显示被测量的所有动脉血氧饱和度。



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呼吸率:

- 监测范围: 每分钟 25 到 450 次
- 监测反应时间: 呼吸率每 1.7 秒向用户报告, 移动报告的值是 10 次呼吸的平均数

脉冲幅度、无创伤监测脉搏充盈度以估量血流量的变化.

- 监测范围: 内径 0 到 800 微米的微小血管;
- 监测误差: <2.4 % 横跨整个监测范围;
- 监测反应时间: 脉搏充盈度实时向用户报告, 在每次心跳以后, 0.72 秒屏幕刷新, 刷新屏幕显示被测量的所有脉搏充盈度。

呼吸幅度 (呼吸的动度)

无创伤监测动物呼吸幅度的变化.

- 监测范围: 每分钟 25 到 450 次
- 监测反应时间: 呼吸率每 1.7 秒向用户报告, 移动报告的值是 10 次呼吸的平均数

Utilizing a single sensor clip, a multitude of parameters can be collected including arterial oxygen saturation, pulse and breath rate, pulse and breath distention and event marking.

Features:

Seven analog cardiopulmonary signals

1. Arterial Oxygen Saturation
2. Pulse Rate
3. Pulse Distention
4. Breath Rate
5. Breath Distention
6. Data Quality Code
7. Experiment Event Markers

MouseOx[®] Small Animal Pulse Oximeter Compared to Human & Veterinary Pulse Oximeters, key differences for medical researchers.

Feature Important to Medical Researchers	Human Pediatric & Neonatal Pulse Oximeters	Vetinary Pulse Oximeters	MouseOx[®] Small Animal Pulse Oximeter
Presents Readings on Steady State, Anesthetized Rats	?	YES	YES
Presents Readings on Steady State, Anesthetized Mice	NO	NO	YES
Presents Readings on Non-Steady State, Anesthetized Rat	NO	?	YES
Presents Readings on Non-Steady State, Anesthetized Mice	NO	NO	YES
Presents Readings on Awake Rats	NO	NO	YES
Presents Readings on Awake Mice	NO	NO	YES
Presents Readings on Neonatal Mice & Rats	NO	NO	YES
O2 Sat. Calibrated for Mice and Rats	NO	?	YES
O2 Sat. Measurements Capability & Calibration Verified at Sat's <60%	NO	?	YES
Beat by Beat Update of Measurements	NO	NO	YES
Flags Researcher of Any Corrupt Measurement(s)	NO	NO	YES
Pulse Shape Displayed to User as Confirmation of Signal Quality	?	?	YES
Strip Chart Display of Changes in O2, Sat & Heart Rate Over Time	NO	NO	YES
Auto-Calculates Average O2 Sat & Heart Rate with a Push of a Button	NO	NO	YES
Sensor Works on Various Body Locations	NO	NO	YES
Sensor Also Measures Breathing	NO	NO	YES
Sensor Also Measures Blood Flow	NO	NO	YES
Analog Output of Data	?	?	YES
File Marking of Experiment Events	NO	NO	YES
Corrupt Measurement(s) Flagged in Recorded File	NO	NO	YES
Records Data to File Easily Read by MS Excel, Spike 2, & Others	NO	NO	YES
Includes Advanced Data Analysis Software	NO	NO	YES
Patents Covering Features Important to medical Researchers (Stated Above)	NO	NO	YES