



Homeothermic Monitoring System

The Homeothermic Monitoring System is a closed loop temperature control system for small rodents. Utilizing a small, flexible rectal probe to monitor the animal's core temperature and a heating pad to provide heat input, the subject's core body temperature can be accurately controlled. The control unit receives temperature feedback from the rectal probe and adjusts the current to the pad accordingly.

The easy to use LCD touch screen allows users to set a target temperature and clearly view the subject's current core body temperature, as well as the set temperature, at all times. Additionally, audible alarms can be set to advise the user should the animal's core body temperature deviate $\pm 1^\circ$ from the set temperature.

Heating pads are available in four sizes to fit all your surgical needs. The standard size is appropriate for mice and small rats and fits nicely into standard stereotaxic instruments, while the large size is for rats and other liked-sized rodents. Two additional sizes are available to fit the common stereotaxic instrument adapters. The pads are flexible enough to fully wrap the animal, which allows the animal to be warmed from all sides rather than just the front or back.

Features

- Easy to use LCD touchscreen
- Flexible rectal probe
- Easy to clean, flexible heating pad
- Multiple heating pad sizes available

Specification	
Temperature Range	20-50°C (68-122°F)
Resolution	0.1°C/F
Integrated Temp Sensor	Yes
Temperature Stability	±0.1°C
Temperature Display	User selectable °C and °F
Pad Material	Silicone
Probe	Flexible rectal probe
Probe Shaft Length	100 mm (3.94 in)
Probe Shaft Diameter	1.6 mm (0.06 in)
Probe Tip Diameter	1.6 mm OD flexible rectal probe
Information Displayed	Current Body Temperature (rectal temperature) and Set Temperature
Serial Communication	RS-485
Analog Output	0-5V, 20-50°C
Analog Input	0-5V, 20-50°C
Dimensions (H x W x D)	12.0 x 22.6 x 15.8 cm (4.72 x 8.91 x 6.21 in)
Weight	0.68 kg (1.5 lbs)
Power	100-240 VAC, 50-60 Hz
Regulatory	CE, ETL (UL, CSA), WEEE, EU RoHS

Ordering Information	
Order #	Product
55-7020	Homeothermic Monitoring System includes: Homeothermic Control Unit, Flexible Rectal Probe, Standard Size Heating Pad (12.0 x 20.5 cm), Insulation Pad and USB cable
55-7034	Homeothermic Monitoring System Includes: Homeothermic Control Unit, Flexible Rectal Probe, Large Heating Pad (20.3 x 25.4 cm), Insulation Pad and USB Cable
55-7030	Homeothermic Monitoring System Includes: Homeothermic Control Unit, Flexible Rectal Probe, Heating Pad for Mouse Stereotaxic Adapter (7.0 x 14.5 cm), Insulation Pad and USB Cable
55-7031	Homeothermic Monitoring System Includes: Homeothermic Control Unit, Flexible Rectal Probe, Heating Pad for Stereotaxic Anesthesia Platform (3.7 x 14.5 cm), Insulation Pad and USB Cable
Replacement Parts	
55-7021	Flexible Rectal Probe, 1.6 mm OD
55-7022	*Heating Pad, Standard, 12.0 x 20.5 cm
55-7032	*Heating Pad, Large, 20.3 x 25.4 cm
55-7023	*Heating Pad, for Mouse Stereotaxic Adapter, 7.0 x 14.5 cm
55-7024	*Heating Pad, for Stereotaxic Gas Anesthesia Platform, 3.7 x 14.5 cm
55-7025	Insulation Pad, for Standard Heating Pad, 12.0 x 20.5 cm
55-7033	Insulation Pad, for Large Heating Pad, 20.3 x 25.4 cm
55-7026	Insulation Pad, for Mouse Stereotaxic Adapter Heating Pad, 7.0 x 14.5 cm
55-7027	Insulation Pad, for Stereotaxic Gas Anesthesia Platform, Heating Pad, 3.7 x 14.5 cm