



Your Trusted Partner in Research

Implant Power Options

The flexibility of telemetry without the power constraints. Battery life and capacity has always been the disappointing weak link in physiological telemetry recording systems - even for low power technologies. With our Wireless Power Supply (WPS), get the most out of your subjects by collecting 24/7 continuous flow and pressure data without the concern for battery life.

Rodents implanted with EndoGear® devices that use our Wireless Power Receiver (WPR) are housed in standard rodent cages stationed on top of the WPS. Two animals can be co-housed for data collection and multiples of eight WPS stations/cages can be set in one rack without interference between the telemetry links. The inductively powered receiver works with all rodent Implant configurations. Both the WPR and WPS are thermally neutral so animal physiology is maintained.

For shorter term protocols, Implants can be equipped with a battery. The battery-configured implants allow for data collection in any location or environment. EndoGear® offers a battery in a 1.2Ahr capacity for approx. 90hr lifetime.



Wireless Power Receiver (WPR)	
Family Model Number	EGAP
Dimensions	22 mm x 22 mm x 10 mm
Weight	6 g
Power Transfer Method	Inductive Power Transfer
Operating Frequency	120 KHz Band
Compatible Power Transmitters	Wireless power Supply, Surgical Wireless Power Supply
Cable Length (± 0.5 cm)	10 cm to 20 cm
Compatible Implants	All rodent implants



Battery	
Family Model Number	EGAP
Battery Life	90 h
Capacity	1.2 Ah
Dimensions	17 mm x 30 mm (DH)
Weight	14 g
Cable Length (± 0.5 cm)	10 cm to 20 cm

Wireless Power Supply (WPS)	
Family Model Number	EG-WPS
Operational Specifications	
Power Transfer Method	Inductive Power Transfer Standard
Powering Distance	10 cm
Number of Independent Frequency Cages	8
Frequency	120 KHz
Power Input type	5V, 30W
Cage Requirements	
Cage Type Accepted	Standard Rat cage – AllenTown PC10198HT or equivalent
Inner Dimensions – Cage Opening	478 mm x 252 mm (LW)
Number of Animals Housed	Up to 2
Physical Specs	
Dimensions	635 mm x 313.8 mm x 80.1 mm (LWH)
Weight	4.095 kg
Weight of Cage Lid	1.533 kg
Weight of Cage and Cage Lid	2.896 kg
Notes:	<p>Each WPS comes with a custom animal housing lid designed to prevent interference from metal objects</p> <p>Six power supplies can be housed in a common plastic shelf (36" x 24" x 72")</p> <p>On board LEDs are designed to indicate power status</p>

EndoGear