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## Base Station



The Base Station is the central processor of the EndoGear<sup>®</sup> System, decoding all signals for data collection. Interfacing between Implants and the EGUI Control Hub via bidirectional Transceivers, the Base Station receives streaming data, and outputs the data in analog form as voltage signals.

The Base Station also sends command signals to the Implant (via the Transceiver) to turn on individual measurement channels and allow on/off power cycling without the need to interact with the animal subject. Data channels are output via universal BNC connection to most commercially available data acquisition systems.

For protocols that require continuous measurement of multiple implants simultaneously, the number of Base Stations and Transceivers scale with the number of Implants in use.

EndoGear Base Station Specifications			
Model	EG108		
# Implants Monitored	Simultaneous	1 per EG108	
	Sequential	Multiple; Up to 16 with EGMUX	
Measurement Signals	BNC Outputs	Range: 0 - 5 Volts	Filter
Flow Channels	2	Q1, (Q2-custom*)	100 Hz
Pressure Channels	3	S1, S2, (S3 - custom*)	100 Hz
Temperature	1	Implant internal sensor	5 Hz
Activity	1	implant internal sensor	5 Hz
Barometric Pressure	1	Transceiver sensor	5 Hz
DAQ Signal Calibration			
	Flow, Temperature	2-point reference scale via EGUI	
	Pressure	Provided by Transonic	
	Barometer	Δ correction for pressure channels	
Analog Trigger	BNC	0 - 5 Volt pulse; start/stop DAQ	
Input/Output Ports			
Transceiver	RJ45	Ethernet Cable	
PC Communication	USB	I/O, Debug, EGUI	
Physical Dimension	L x W x H	19 cm x 24 cm x 6.5 cm	
Weight	3 lbs	1.35 kg	
	DC Barrel Jack	9V DC	
Notes:	* Standard EG Rodent Implants come with 1 flowprobe.		
	* Standard EG Rodent Implants come with 1 - 2 pressures.		

