



Snail Barrier SB5000 Datasheet

The Snail Barrier SB5000 is an underwater snail barrier preventing evasive New Zealand mud snails from working their way into fish hatcheries and other locations where fish would digest these snails. The SB5000 is



the controller in a system that also needs a power supply typically a battery, solar panel, and solar charge controller along with an under-water probe typically made from two stainless steel bands. This controller has several features:

- Probe Measurement Data (Voltage, Current, Resistance)
- Battery Voltage Measurement
- Automatic Probe Polarity Switching after 24 hours
- Pulse Countdown to Polarity Switch
- Barrier Effectiveness Parameter. Shows Maximum Supported Probe Length
- Display Probe Polarity Indication
- Warning / Error Messages (Low Probe Current, Low Battery Voltage, Over Current)
- Probe Short Protection
- Plug and Play Operation, no Configuration Needed
- Case comes with Two Mounting Holes (4.755" apart)
- Includes 6" Power and Probe Pigtails

Specifications

Parameter	Minimum	Typical	Maximum	Units
Input (Battery) Voltage Range	7	12	30	Volts
Probe Current Range*	40		5000	mA
Probe Voltage Range	7		30	Volts
Probe Resistance Range*	3		500	Ohms
Pulse On Time		25		ms
Pulse Off Time		3000		ms
Polarity Switch Count		28565		
Polarity Switch Time		24 hours		
Battery Voltage Measurement Accuracy	-5.0		+5.0	%
Probe Voltage Measurement Accuracy	-5.0		+5.0	%
Probe Current Measurement Accuracy	-8.0		+8.0	%
Probe Resistance Measurement Accuracy	-8.0		+8.0	%
Low Voltage Warning		< 10.8		Volts
Low Current Warning		< 18.0		mA
Overcurrent Warning		> 5100		mA
Probe and Battery Connectors	Anderson Powerpole			
Fuse Size	2.0 A			
Size	5.245" x 3.076" x 1.375"			
Weight	7 oz			
Current Draw	35 mA Nominal plus probe current at 0.83% duty cycle			

*Small current and large resistance measurements outside the specified ranges are less accurate