



Fish Guardian FG5000 Datasheet

The Fish Guardian FG5000 is a battery powered device that can be used to anesthetize fish in the lab or the

field. A tub of water with electrodes on two sides of the tub can be used to anesthetize the netting of fish. After 10 to 15 seconds the fish will be immobilized and can be placed in an adjacent tub of water where the fish can be processed before regaining consciousness in about a 3 to 5 minutes. The controller has several features:

- Probe Measurement Data (Voltage, Current, Resistance)
- Battery Voltage Measurement
- Automatic Probe Polarity Switching after 71 minutes
- Pulse Countdown to Polarity Switch
- 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	24	30	Volts
Probe Current Range*	40		3000	mA
Probe Voltage Range	7		30	Volts
Probe Resistance Range*	3		500	Ohms
Pulse On Time		25		ms
Pulse Off Time		125		ms
Polarity Switch Count		28565		
Polarity Switch Time		71		min
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		< 20.5		Volts
Low Current Warning		< 18		mA
Overcurrent Warning		> 3100		mA
Probe and Battery Connectors	Anderson Powerpole			
Fuse Size	7.5 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