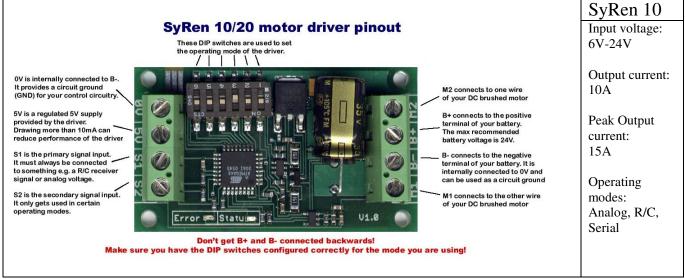


SyRen 10 Quick Start Guide

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Congratulations on your purchase of a Syren 10 regenerative motor driver. SyRen 10 is one of the most flexible and configurable motor drivers on the market. As a result, it must be set to the correct operating mode before use before use. Below is a generalized hookup diagram of a Syren 10. On the reverse side is a chart of some of the most commonly used operating modes.



For full product documentation and manual, please visit http://www.dimensionengineering.com/SyRen10.htm



Operating mode reference chart. All options are set via the DIP switches

Analog bi-direction: a 0V to 5V	
CTS 095	analog input is connected to terminal
	S1. 0V is full reverse, 5V is full
	forward and 2.5V is stop
	•
0N CTS	Analog single-direction: a 0V to 5V
	analog input is connected to terminal
	S1. 0V is stop and 5V is full forward.
0 N CTS 045	R/C standard: An R/C servo signal is
	connected to terminal S1. A 1000us
	pulse is full reverse and a 2000us pulse
	is full forward. 1500us is stop.
0 N CTS	R/C auto-calibrate: An R/C servo
	signal is connected to terminal S1. The
	SyRen will automatically detect the
	center and endpoints of the signal.
0 CTS 046	Simplified Serial, 38400 Baud: A
	TTL level 8N1 serial data stream is
	connected to terminal S1. Control is by
	single byte commands: 0 is full reverse,
	128 is stop and 255 is full forward.
0 N CTS 045	Packetized Serial, address 128: A
	TTL level 8N1 serial data stream is
	connected to terminal S1. Control is via
	a multi-byte packet.
0N CTS	Lithium cutoff option: When switch 3
	is in the down position (in any
	operating mode) the SyRen will shut
	down at 3.0V per cell. This protects
	lithium batteries from damage.

SyRen 10 features an additional 17 operating modes and options not shown here. For the full manual, please visit http://www.dimensionengineering.com/SyRen10.htm