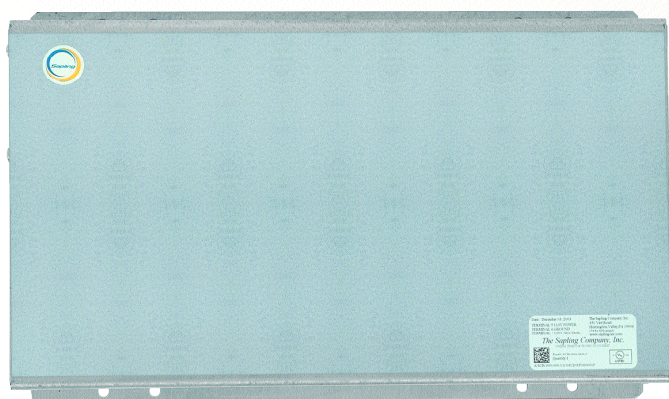


■ Converter Box

Description

The Sapling Converter Box takes the RS485 signal input and converts it to two (2) wire digital communication protocol, making it ideal for renovation projects. The Converter Box has a 5.5 amp output which allows a large number of clocks to be run off of one single box. The Converter Box can also be used as a booster by accepting the two (2) wire protocol and providing additional power for the system. The Converter Box is equipped with diagnostic LEDs. This lets the user know if the Converter Box is reaching 80% of its maximum load capacity, and another LED letting the user know if the temperature is reaching 80% of its tolerance. There are also an additional two (2) LEDs that will notify the user if the Converter Box is receiving an input. The Converter Box includes a 22 CFM fan that keeps the Converter Box cool. Along with these features, the Converter Box works quietly, eliminating any excess noise. Analog and digital clocks can run on the same line, making the Converter Box a perfect fit for existing, or new installations. The Converter Box comes standard with a metal enclosure and is easy to install.



Highlights

- ▶ Converts RS485 signal to a 24 volt, two (2) wire digital communication system
- ▶ Ideal for renovation projects when a limited number of wires are available
- ▶ Protects against overloading and shorts, as well as high temperature damage
- ▶ Provides a powerful 5.5 amp, \pm 24 volt output
- ▶ Can drive both analog and digital clocks on the same run
- ▶ Slim design, making the Converter Box versatile for mounting
- ▶ LEDs for viewing the receipt of data to the Converter Box
- ▶ Diagnostic LEDs to analyze the Converter Box if it is reaching its threshold for current or temperature
- ▶ Quiet operation
- ▶ Simple installation
- ▶ UL and cUL listed
- ▶ Made in the U.S.A.

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Architectural & Engineering Specifications

The power supply shall be a Sapling Converter Box (part number SCB-000-000-1). It will have a 24 volt, 150 watt DC power supply. It shall be capable of driving 24 volt analog and digital clock systems. The protocol shall be a two (2) wire digital communication system. The power supply will have an output of 5.5 amps, at 24 volts DC. The power supply will be powered via 110 volts AC, and have a RS485 or two (2) wire digital communication input. It shall have the capability to sense and notify the user in case the power supply is reaching 80% of the temperature threshold, or if 80% of the maximum load capacity is imposed. It will have two (2) LEDs to display if the power supply is receiving an input. The power supply shall have four (4) sets of outputs. The power supply will have slim, metal housing. It shall be UL and cUL listed, as well as FCC approved.

Ordering Information

Converter Box

SCB-000-000-1

Specifications

Voltage Input:	85–132 volts AC
Input Signal:	RS485 or two (2) wire digital
Output Current:	5.5 amps
Output Voltage:	± 24 Volts DC
Diagnostic LEDs	
Load Tolerance LED:	80% of 5.5 amps
Temperature Tolerance LED:	80% of 53°C
Temperature range	
Operating:	0°C–45°C
Shelf:	-15°C–75°C
Fan:	DC brushless 60 x 60 x 25 mm 22.1 CFM, 34.3 dB(A)
Color:	Galvanized metal
Weight:	7 lbs.
Housing Dimensions: (L x W x D)	7.75" x 12.36" x 2.63"
Compliance:	UL and cUL listed

