SCP211 & SCP311 RS-232 to RS-422/485 Converters

- Isolated and Non-Isolated Models
- ✓ ESD Protection 8 kV Contact, 15 kV Air
- ✓ Rugged Metal Case
- Wide Operating Temperature Models
- ✓ Panel Mount with Available DIN Rail Adapters

✓ Built in Switchable Bias & Termination

Our SCP series RS-232 to RS-422/485 serial converters are compact and tough. Each model is designed and tested to meet heavy industrial EMC standards. The RS-232 signal is connected through a female DB9 connector. The RS-422/485 (2-Wire and 4-Wire) signal is connected through a removable terminal block, making wiring easy. Power is connected through a two position removable terminal block. Our bit-wise enabled circuitry automatically detects the character time-out eliminating the need to set DIP Switches for the baud rate.

The basic model, SCP211-DFTB3, is non-isolated and made for less demanding temperature extremes. If you need a wider operating temperature but do not require isolation, model SCP211T-DFTB3 is available. These models should be used when isolation is not required, such as applications in which the data line does not exit the control cabinet.

Model SCP311T-DFTB3 offers 2 kV Isolation and will stand up to -40 to 80°C temperature variations. This is our most rugged model in this series. The SCP311 is an excellent investment for protecting your expensive control equipment.





SCP Series RS-232 to RS-422/485 Converter - Shown with optional DIN Rail Adapter

Specifications

RS-232 RS-422/485 4W RS-485 2W Data Rate Isolation Surge Protection Industrial Bus Bias Termination Connectors

Source

TD / RD

Weight

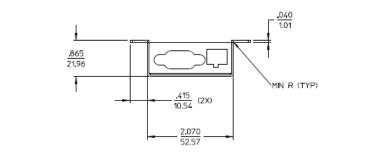
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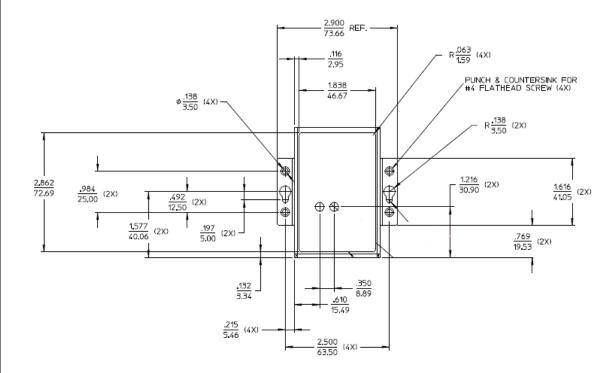
Serial Technology TD, RD, GND TDA(-), RDA(-), TDB(+), RDB(+), GND DATA A(-), DATA B(+), GND 460.8 Kbps 2 kV (SCP311T-DFTB3) +/- 0.5 kV DC Ports, +/- 1 kV Signal Ports Modbus ASCII/RTU 1 KΩ Switchable 120 Ω Switchable RS-232 - DB9F (DCE) RS-422/485 - Removable Terminal Block Power External Power Connector **Terminal Block** 10 to 30 VDC Input Voltage Power Consumption 1.0 Watt Maximum Indicators Green LED (Also used to indicate power) Mechanical Dimensions 99x22.9x73.7 mm (3.9x0.9 x2.9 in) IP 30, Metal Enclosure 0.33 lbs, 0.15 kg MTBF SCP211 Series 313926 Hours MTBF SCP311-DFTB3 217576 Hours MTBF Calc. Method MIL 217F Parts Count Reliability Environmental **Operating Temperature** SCP211-DFTB3 0 to 70℃ SCP211T-DFTB3 -40 to 80 ℃ SCP311T-DFTB3 -40 to 80 ℃ Storage Temperature -40 to 85 ℃ 0 to 95% Non-condensing **Operating Humidity** Regulatory Approvals FCC, CE, UL UL 508 File Number: E222870 Ordering Information SCP211-DFTB3 RS-232 to 422/485 Converter

SCP211T-DFTB3	Wide-Temp, RS-232 to RS-422/485	
	Converter	
SCP311T-DFTB3	Wide-Temp, Isolated, RS-232 to 422/485	
	Converter	
DRAD35	DIN Rail Adapter	
PS5R-A24	24 VDC, 7.5 W Power Supply,	
	DIN / Panel Mount	

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Approvals / Certifications				
Regulatory	UL Listed, UL File Number: E222870			
Emissions	FCC Class B, CISPR Class B (EN55022)			
CE	EN61000-6-2:2005	(Heavy Industr	ial)	
	EN61000-4-2:2008	(ESD)	8kV contact, 15kV air	
	EN61000-4-3:2006	(RI)	10 V/m	
	EN61000-4-4:2004	(EFT Burst)	1kV signal, 2kV power	
	EN61000-4-5:2005	(Surge)	1kV signal, 500V DC, 1kV AC	
	EN61000-4-6:2005	(CI)	10 Vrms	







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