## **485LDRC9**

## Industrial RS-232 to RS-422/485 Converter

- ✓ Extend Data up to 4000 ft / 1.2 km
- √ 2000V Optically Isolated Data Lines
- √ Wide Operating Temperature
- √ Modbus ASCII/RTU
- ✓ Automatic Send Data Control
- √ Switchable 120Ω Termination
- √ Complies with NEMA TS1 & TS2 **Environmental requirements for Traffic Control Equipment**

The 485LDRC9 is an optically isolated RS-232 to RS-422/485 Converter. RS-232 signals interface through a convenient DB9 F connector or through a terminal block. RS-422/485 signals and the power inputs connect to the terminal block. Built in Send Data Control circuitry eliminates the need for external software to control handshake signals. Optically isolated data lines, with 500W surge suppression, ensures that the connected equipment is protected even in the harshest of environments.

The converter operates on externally sourced 10 – 30 VDC power. The enclosure has a DIN rail mount that is designed to fit easily on a standard 35mm rail. The 485LDRC9 is ideal for your critical industrial communications needs.

Specifications		
RS-232		
Connector	DB9 F (DCE)	
Signals Connector	TD, RD, GND Terminal Block	
Signals RS-422	TD, RD, GND	
Connector	Terminal Block	
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND	
Termination	120Ω (Switchable)	
RS-485		
Connector	Terminal Block	
Signals	TDA(-), TDB(+), RDA(-), RDB(+), GND	
Modes	2-Wire and 4-Wire	
Termination	120Ω (Switchable)	



Isolation	
Lines Protected	Data Lines
Method	Optical
Rating	2000 V
Surge Suppression	
Lines Protected	Data Lines
Method	TVS
Rating	7.5V bi-directional
-	and a language of the second of the

avalanche breakdown device 500W peak power dissipation

Response Time < 1 pico-second

**Industrial Bus** MODBUS ASCII/RTU

Power Connector Terminal Block 10 to 30 VDC Voltage Power Consumption 0.5 W External Source

**Terminal Blocks** 24 to 14 AWG Wire Size **Torque** 4 kgf-cm

**LED Indicators** On when power applied Power (RED) TD (RED) Flashes when RS-422/485 data sent

data received

**Enclosure** Plastic Material IP Rating

1.0 x 3.1 x 3.7 in (2.5 x 7.9 x 9.5 cm) **Dimensions** Mounting 35 mm DIN (Panel Mount Adapter is available)

**Environmental** Operating Temperature

RD (RED)

Storage Temperature Operating Humidity

**MTBF** MTBF Calculation Method

NEMA TS1 & TS2

Parts Count Reliability Prediction Complies with NEMA TS1 & TS2 Environmental requirements for

> Traffic Control Equipment CE. FCC

257448 hours

cULus Recognized, File E222870 Declaration of Conformity available for download at www.bb.elec.com

Flashes when RS-422/485

-40 to 80 C (-40 to 176 F)

-40 to 85 C (-40 to 185 F) 0 to 95% Non-condensing

**Ordering Information** 

**Agency Approvals** 

Model Number Power Supply

485LDRC9

An external source is required.

Panel Mount Adapter DRPM25





