## **485LDRC**9

## 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 Signals Connector Signals	DB9 F (DCE) TD, RD, GND Terminal Block TD, RD, GND	
RS-422		
Connector Signals Termination	Terminal Block TDA(-), TDB(+), RDA(-), RDB(+), GND 120Ω (Switchable)	
RS-485	12012 (O'Monablo)	
Connector Signals	Terminal Block TDA(-), TDB(+), RDA(-), RDB(+), GND	
Modes Termination	2-Wire and 4-Wire 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
o .	avalanche breakdown device
	500W peak power dissipation
Response Time	< 1 pico-second

industrial Bus	
	MODRUS ASCII/RTH

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

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

Power (RED)

TD (RED)

TD (RED)

TD (RED)

Con when power applied
Flashes when RS-422/485
data sent

RD (RED)

Flashes when RS-422/485

Enclosure

Material Plastic
IP Rating 20

Dimensions 1.0 x 3.1 x 3.7 in (2.5 x 7.9 x 9.5 cm)

Mounting 35 mm DIN (Panel Mount Adapter is available)

data received

**Environmental** 

Operating Temperature
Storage Temperature
Operating Humidity
MTBF
MTBF Calculation Method

-40 to 80 C (-40 to 176 F)
-40 to 85 C (-40 to 185 F)
0 to 95% Non-condensing
257448 hours
Parts Count Reliability Prediction

NEMA TS1 & TS2

Complies with NEMA TS1 & TS2

Environmental requirements for

Traffic Control Equipment CE, FCC

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

Ordering Information
Model Number 485LDRC9

Power Supply An external source is required.

Panel Mount Adapter DRPM25





