

485OP

Optically Isolated RS-422/485 Repeater



- ✓ 2 KV Isolation
- ✓ Power Supply Included
- ✓ Modbus
- ✓ RS-422 or 2-Wire & 4-Wire RS-485
- ✓ UL Recognized

Model 485OP is an optically isolated RS-422/485 signal repeater. In addition to offering 2KV isolation on the data lines, it can be used to extend your RS-422/485 circuit an additional 4,000 ft, doubling the range. An added benefit is that you are able to add another 32 nodes to your RS-485 network and join 2 and 4 wire systems.

The compact design lets you fit this repeater almost anywhere. Terminal blocks allow easy installation. A 12 VDC wall transformer power supply is included with convenient stripped and tinned leads.

Serial Protocols

RS-422
RS-485 4-Wire
RS-485 2-Wire

Isolation

Lines Protected Data Lines
Method Optical
Rating 2000 V

Surge Suppression

Lines Protected Data Lines
Method TVS
Rating 6.5V bi-directional
600W peak power dissipation

Industrial Bus

MODBUS ASCII/RTU

Power

Connector Terminal Block
Voltage 10 to 14 VDC
Power Consumption 1.0 W
Source Included Wall Transformer or other 10 to 14 VDC Source

Included Wall Transformer Power Supply

Input Voltage 120 VAC
Plug Style US
Output Voltage 12 VDC @ 500 mA
Output connection Leads stripped and tinned

Terminal Blocks

Wire Size 22 to 14 AWG
Torque 0.5 Nm

LED Indicators

2 x DATA (RED) Flashes when data received

Enclosure

Material Plastic
IP Rating 30
Dimensions 3.8 x 2.4 x 1.0 in (9.7 x 6.1 x 2.5 cm)
Mounting In line

Environmental

Operating Temperature 0 to 55 C (32 to 131 F)
Operating Humidity 0 to 95% Non-condensing
MTBF 453103 hours
MTBF Calculation Method Parts Count Reliability Prediction

Agency Approvals

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

Ordering Information

Model Number 485OP
Replacement P. Supply 485PS4

