

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

