RS-422/485 Isolated Repeater 4850PDR

✓ Extend data up to 1.2 km (4,000 ft)
 ✓ 2000V optically isolated data lines
 ✓ -40 to +80 °C operating temperature
 ✓ Modbus ASCII/RTU
 ✓ Complies with NEMA TS1 & TS2

Environmental requirements for Traffic

The 485OPDR is an optically isolated RS-422/485 isolated line repeater which can be used to isolate a piece of equipment from the rest of the network. As a repeater, it extends the distance of an existing network an additional 1.2 km (4000 ft) and expands it beyond the typical 32-node limitation. Data signals and the power inputs connect to the terminal block. 600W surge suppression ensures that the connected equipment is protected even in the harshest of environments. 2-wire RS-485, 4-wire RS-485 and RS-422 are supported.

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





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E222870 Specifications

RS-422/485	
Connector Signals	Terminal block TDA(-), TDB(+), RDA(-), RDB(+), GND RS-485 2-wire, RS-422/485 4-wire Protected GND on isolated side
Isolation	
Method Rating	Optical 2000 V
Surge Suppression	T) (0
Method Rating	TVS 6.5V bi-directional avalanche breakdown device 500W peak power dissipation
Response Time Industrial Bus	< 1 pico-second
Industrial Bus	Modbus ASCII/RTU
Power	Modbus Acon/1110
Connector Voltage Power Consumption Source	Terminal block 10 to 30 VDC 0.7 W External source required
Terminal Blocks	
Wire Size Torque	24 to 14 AWG 4 kgf-cm
LED Indicators	
2 DATA LEDs (RED)	Data LED for each side of isolator Flashes when data transmitted
Enclosure	-
Material IP Rating Dimensions Mounting	Plastic 20 2.5 x 7.9 x 9.5 cm (1.0 x 3.1 x 3.7 in) 35 mm DIN (panel mount adapter is available)
Environmental	
Operating Temperature Storage Temperature Operating Humidity MTBF MTBF Calculation Method NEMA TS1 & TS2	-40 to 80 C (-40 to 176 F) -40 to 85 C (-40 to 185 F) 0 to 95% Non-condensing 225299 hours MIL217F Parts Count Reliability Complies with NEMA TS1 & TS2 Environmental requirements for Traffic Control Equipment
Agency Approvals	CE, FCC cULus Recognized, File E222870
Ordering Information 485OPDR Accessories MDR-20-24	RS-422/485 Isolated Repeater 24 VDC, 1.0 A DIN rail power
DRPM25	supply Panel Mount Adapter

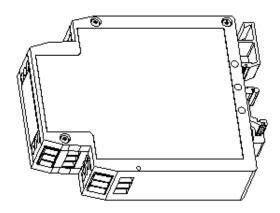
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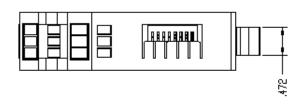
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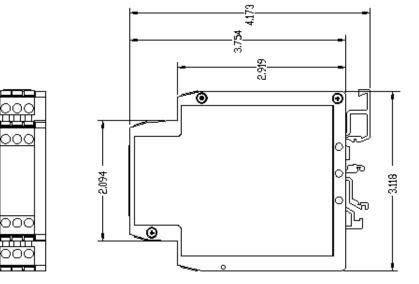
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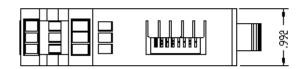
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PRODUCT INFORMATION











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