

485OPDR

RS-422/485 Isolated Repeater

- ✓ Extend Data up to 4000 ft / 1.2 km
- ✓ 2000V Optically Isolated Data Lines
- ✓ -40 to 80°C Operating Temperature
- ✓ Modbus ASCII/RTU



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 existion network an additional 4000 ft (1.2 km) and expands it beyond the 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 easily on a standard 35mm rail. The 485OPDR is ideal for your critical industrial communications needs.

Specifications

RS-422/485	
Connector Signals	Terminal Block TDA(-), TDB(+), RDA(-), RDB(+), GND RS-485 2-Wire and 4-Wire Protected GND on Isolated Side
Isolation	
Method	Optical
Rating	2000 V
Surge Suppression	
Method	TVS
Rating	6.5V bi-directional avalanche breakdown device 500W peak power dissipation
Response Time	< 1 pico-second
Industrial Bus	
	MODBUS ASCII/RTU
Power	
Connector	Terminal Block
Voltage	10 to 30 VDC
Power Consumption	0.7 W
Source	External
Terminal Blocks	
Wire Size	24 to 14 AWG
Torque	4 kgf-cm
LED Indicators	
2 DATA LEDs (RED)	Data LED for each side of isolator Flashes when data transmitted
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)
Environmental	
Operating Temperature	-40 to 80 C (-40 to 176 F)
Storage Temperature	-40 to 85 C (-40 to 185 F)
Operating Humidity	0 to 95% Non-condensing
MTBF	225299 hours
MTBF Calculation Method	MIL217F Parts Count Reliability
Agency Approvals	
	CE, FCC cULus Recognized, File E222870
Ordering Information	
Model Number	485OPDR
Power Supply	An external source is required. MDR-20-24 Recommended
Panel Mount Adapter	DRPM25

