# Optically Isolated RS-422/485 Repeaters

4850P, 4850PB



AD\ANTECH

www.advantech-bb.com



Model 4850P is an optically isolated RS-422/485 signal repeater. In addition to 2KV isolation on the data lines, it can be used to extend RS-422/485 circuits an additional 1.2 km (4,000 ft.), thereby doubling the range. An added benefit is the ability to add another 32 nodes to an RS-485 network and join 2 and 4 wire systems.

The compact design fits almost anywhere. Terminal blocks allow easy installation. Wiring schematic on the label eliminates guesswork. A 12 VDC power supply is required.

## **ORDERING INFORMATION**

MODEL NUMBER	DESCRIPTION	POWER SUPPLY
4850P	RS-422/485 Fiber Optic Isolated Repeater	USA (included)
4850PB	RS-422/485 Fiber Optic Isolated Repeater	EU or UK (sold separately)

# ACCESSORIES

PS1EU-1000 - 220-240 VAC to 12 VDC power supply, jack, Euro CEE7/7 plug PS1UK-1000 - 220-240 VAC to 12 VDC power supply, jack, UK BS-1363 plug 485HESP - RS-485 surge protector

485PS4 - 12VDC @ 500 mA, wall power supply, tinned stripped leads

## **PRODUCT FEATURES**

- 2 KV isolation
- Add up to 32 nodes to RS-485 network
- RS-422 2-wire, RS-485 2 or 4-wire
- Modbus
- UL Recognized (Model 4850P only)

#### **SPECIFICATIONS**

077111 770700010			
SERIAL PROTOCOLS			
	RS-422 4-wire		
	RS-485 2-wire		
	RS-485 4-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	Marallana ACOU/DTU		
DOWED	Modbus ASCII/RTU		
POWER	Towning block		
Connector	Terminal block		
Voltage	10 to 14 VDC		
Power Consumption	1.0 W		
Source	Included wall transformer or other 10 to 14 VDC source		
POWER SUPPLY			
Input Voltage	120 VAC (USA); 220-240 VAC (EU, UK)		
Output Voltage	12 VDC		
Output Connection	USA: Stripped and tinned leads EU: UK BS-1363 plug, jack UK: Euro CEE7/7 plug, jack		
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	9.7 x 6.1 x 2.5 cm (3.8 x 2.4 x 1.0 in)		
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 (Model 4850P only)		
	Declaration of Conformity available for download at www.bb-elec.com		

All product specifications are subject to change without notice. 4850P&4850PB 1916ds

