

ADPT-3RJ-TB

Power over Modbus (PoM) adapter - RJ45 sockets to terminal block



ADPT-3RJ-TB is an adapter for Power over Modbus (PoM) connection between three standard UTP network (RJ45) and one 4-pins terminal block. PoM is the Sentera standard for distribution of Modbus RTU (RS485) and power supply via a single RJ45 connector. The ADPT-3RJ-TB adaptor facilitates interconnecting Sentera devices with PoM to devices with regular terminal blocks.

Key features

- Adapter for Power over Modbus (PoM) connection between three standard UTP network (RJ45) connectors and one 4-pins terminal block
- One pluggable 4-pins terminal block (for V+, A, /B, and GND connection)
- Left LED in RJ45 connector as indication for 24 VDC power supply
- Compact design and reliable connections

Technical specifications

Type of connection	3 RJ45 connectors for standard UTP network	
	1 pluggable 4-pins terminal block for Modbus communication and Power supply (V+, A, /B and GND)	
Protection standard	IP30 (according to EN 60529)	
Ambient conditions	Temperature	-20—70 °C
	Rel. humidity	5—90% rH (non-condensing)

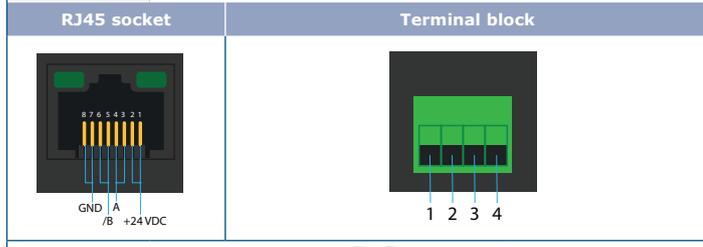


Area of use

- Facilitate interconnecting of Sentera devices with RJ45 connector to devices with terminal blocks
- For indoor use only!

Wiring and connections

	RJ45 Sentera Modbus	
Pin 1		Supply voltage, 24 VDC
Pin 2		
Pin 3		Modbus RTU communication, signal A
Pin 4		
Pin 5		Modbus RTU communication, signal /B
Pin 6		
Pin 7		Supply voltage, ground
Pin 8		



	Terminal block	
Pin 1	V+	24 VDC supply voltage
Pin 2	A	Modbus RTU communication, signal A
Pin 3	/B	Modbus RTU communication, signal /B
Pin 4	GND	Ground
Connections	Screened, foil-shielded, or standard UTP cable	

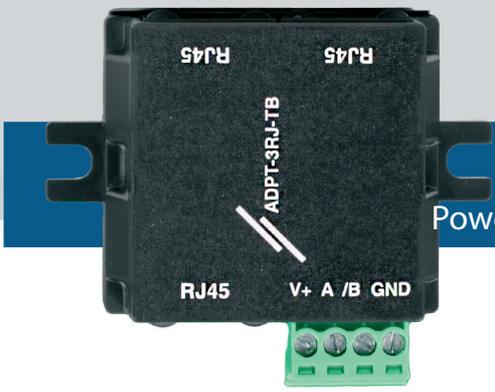
Note: The left LED of each RJ45 socket lights up to indicate that 24 VDC power supply is connected.

Standards

- EMC directive 2014/30/EU:
- Low Voltage Directive 2014/35/EU - EN 60529:1991 Degrees of protection provided by enclosures (IP Code) Amendment AC:1993 to EN 60529
- WEEE Directive 2012/19/EC
- RoHS Directive 2011/65/EC

ADPT-3RJ-TB

Power over Modbus (PoM) adapter - RJ45 sockets to 4-terminal block



Packaging

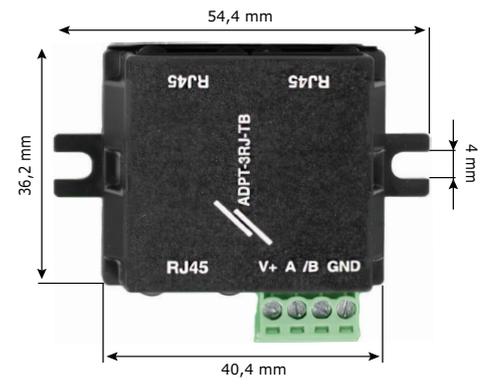
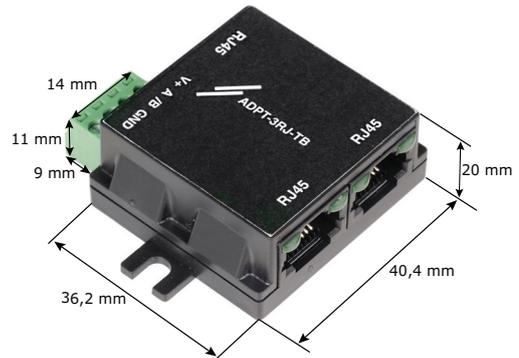


Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
ADPT-3RJ-TB	Unit (1 pc.)	120	100	20	32 g	35 g
	Box (10 pcs.)	210	125	105	320 g	452 g

Global trade item numbers (GTIN)

Packaging	ADPT-3RJ-TB
Unit	05401003018507
Box	05401003504147

Dimensions



Indications



1 - Left green LED	On	Indicates that 24 VDC PoM power supply is connected
2 - Right green LED		Not connected