

BSU

CNVT-USB
-RS485-V2Sentera
3SModbus

SENTERA
CONTROLS

CNVT-USB-RS485-V2

USB to Modbus converter

The CNVT-USB-RS485-V2 is a self-powered USB to Modbus RTU (RS485) converter. The Modbus RTU serial information is automatically converted to serial information on a USB virtual COM port.

Key features

- Easy plug & play installation
- Supply voltage: 5 VDC from USB bus, no additional current supply necessary
- LED indication for receiving and transmitting signals
- Connection with RJ45 plug (UTP-cable)
- Compatible with USB 2.0
- Installs as a standard Windows COM port

Technical specifications

Supply voltage	5 VDC, USB powered		
USB connector	USB 2.0 Type A		
Modbus RTU connection	RJ45 socket		
Imax	20 mA		
Other specifications	Communication: 2-wire, up to 256 nodes		
	Baudrate range: 4800 - 230400 b/s		
	Input buffer 256 B, output buffer – 256 B		
	Connection with RJ45 plug (UTP-cable)		
	Parity: none, even, odd		
	Data bits: 7, 8		
	RS485 protection	±16 kV HBM ESD ±8 kV IEC 61000-4-2 Contact Discharge ±30 kV IEC 61000-4-2 Air-Gap Discharge ±4 kV IEC 61000-4-4 Electrical Fast Transient ±2.5 kV IEC 61000-4-5 1.2/50-µs Surge	
Protection standard	IP30 (according to EN 60529)		
Ambient conditions	Temperature	-10—60 °C	
	Rel. humidity	5—85 %	

Standards

- Low Voltage Directive 2014/35/EC:
- 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



Area of use

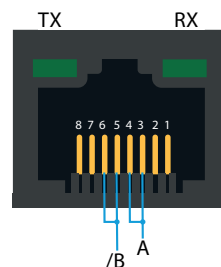
- Connect Sentera devices with Modbus RTU communication to a computer for monitoring or configuration.



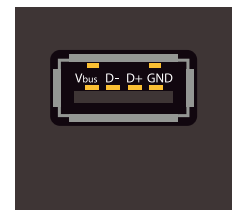
Wiring and connections

RJ45 Sentera Modbus network	
Pin 1	Not connected
Pin 2	Not connected
Pin 3	Modbus RTU communication, signal A
Pin 4	Modbus RTU communication, signal A
Pin 5	Modbus RTU communication, signal /B
Pin 6	Modbus RTU communication, signal /B
Pin 7	Not connected
Pin 8	Not connected

RJ45 socket



USB A socket



Typical accessories

- **U502GYXXRJ8RJ8** (UTP-cable with RJ45 plugs on both ends (connection for –M and –H type articles))
- **U502GYXXRJ8W05** (UTP-cable with RJ45 plug on one end and wire end terminals on other end (connection for –F, –G and –H type articles))

BSN

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Packaging

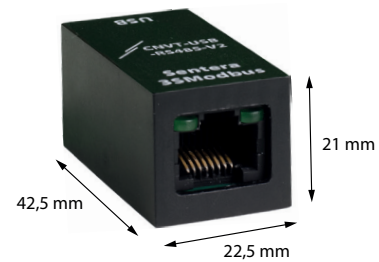


Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
CNVT-USB-RS485-V2	Unit (1 pc.)	-	100	140	15 g	27 g

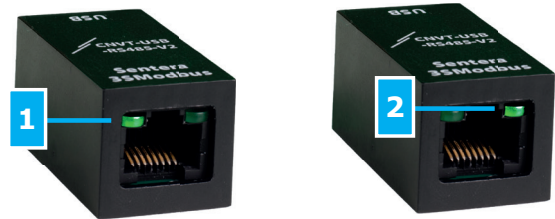
Global trade item numbers (GTIN)

Packaging	CNVT-USB-RS485-V2
Unit	05401003017678
Carton	05401003302361

Fixing and dimensions



Indications



1 - Green LED 1	Blinking	Transmitting
2 - Green LED 2	Blinking	Receiving

Application example

