REDZ
SMART COMMUNICATION

redz-sc.com hi@redz-sc.com

BKV Series USB to P1 Companion Meter Interface Converters

Reads P1 electricity meter data on your PC

- P1 electricity meter data straight to a PC
- Terminal connector for 3 wire P1 connection: Data, Data Request, GND
- USB Type A or Type C cable, 3 m



The BKV P1 converters bring the data of a P1 electricity meter directly to a local device such as a PC, over USB.

Main Functions

1. **USB to P1:** converts USB to the P1 Companion meter protocol.
2. **P1 terminal:** a 3 wire connection with Data, Data Request and GND on the meter side.
3. **RJ12 meter cable:** prepared by the user to the length needed.
4. **Status LEDs:** PWR, Rx and Tx show power and data activity.
5. **USB cable, 3 m:** Type A or Type C cable, chosen by model.

Key Figures

3 wire
P1 connection: Data, Data Request, GND

3 m
USB cable, Type A or Type C

-20 to +80 C
operating temperature

What it does

- Brings the data of a P1 electricity meter directly to a local device such as a PC.
- Converts USB to the P1 Companion meter protocol.

What it shows

- PWR lights when the device is powered properly; Rx and Tx light during data transfer, following the data activity.

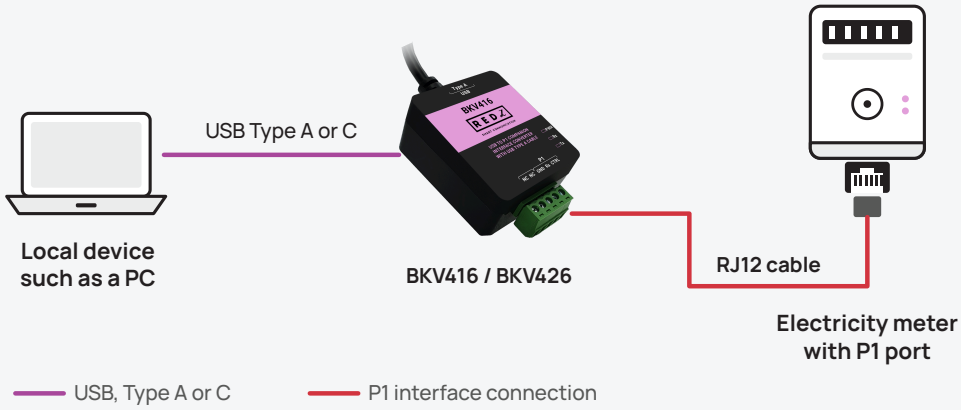
What it is for

- Reading the data of a P1 electricity meter on a PC, through an RJ12 cable of the length you need.
- Listening to the meter data with a terminal application on the PC.

Technical Data

	BKV416 USB Type A cable	BKV426 USB Type C cable
Host interface	USB 2.0 full speed	
USB cable	USB Type A, 3 m cable	USB Type C, 3 m cable
Meter interface	Terminal connector for 3 wire P1 connection: Data, Data Request, GND	
Meter cable	The RJ12 cable to the meter is prepared by the user to the length needed	
P1 signal polarity	P1 signal polarity (inversion) is set in the converter	
Power	Powered from the USB port	
LEDs	PWR, Rx, Tx	
Operating temperature	-20 to +80 C	
Dimensions	Approx. 43 x 48 x 23 mm (without cable, antenna and terminal plug)	
Enclosure	ABS, black	

Typical Application



Typical application: the converter reads a P1 electricity meter over an RJ12 cable and passes the data to a PC over USB.

Connect and Use

1. Connect the USB cable to the PC and complete the installation of the driver.
2. Connect the P1 side to the P1 interface of the electricity meter with the RJ12 cable you prepare.
3. On the meter side, use Data, Data Request and GND; the 5 V power pin of the meter port is not used.
4. Use a terminal application on the PC to listen to the meter data.
5. Check the LEDs: PWR shows that the device is powered, Rx and Tx show data transfer.

Ordering Information

BKV416: USB to P1 Companion Protocol Meter Interface Converter With USB Type A Cable

BKV426: USB to P1 Companion Protocol Meter Interface Converter With USB Type C Cable