PMU485 Smart Setup Hub

- Instrument power
- Initial setup
- Data collection
- Firmware update
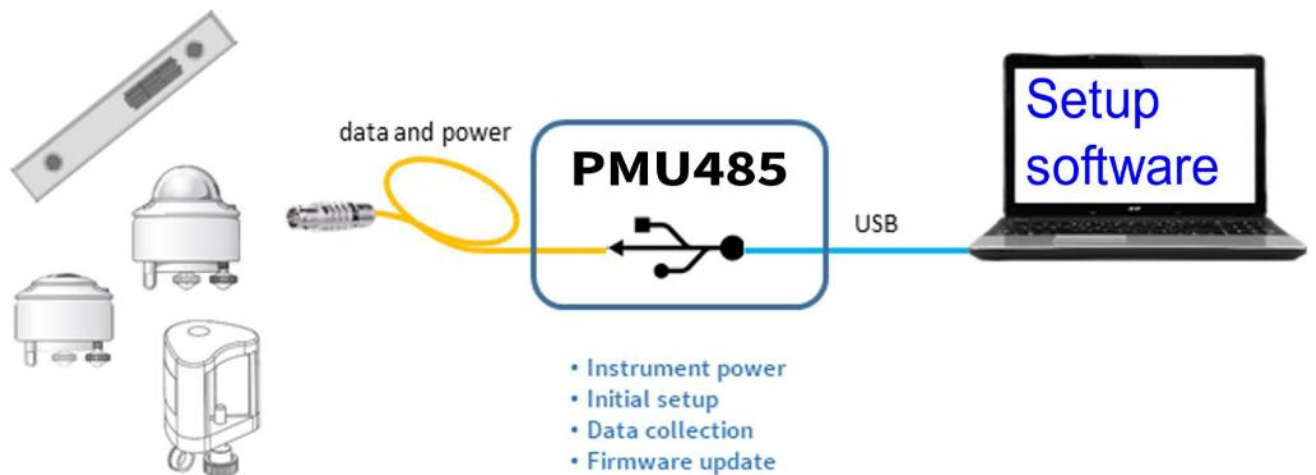

Description

The PMU485 is a power source and data connection between a smart Kipp & Zonen device and a PC.

No separate AC to DC power adapter is required, the PMU485 contains a small rechargeable Lithium-ion battery and a DC-DC converter to provide 12 V to the device. The built-in 2-wire RS-485 to USB 2.0 converter controls the data connection and a 1.5 m USB cable is supplied. All Kipp & Zonen Smart radiometers are supported; SMP, SHP, SGR, SUV, PR1, PH1, RT1 and also the DustIQ Soiling Monitoring System.

There is no power switch on the PMU485, connecting it to an active USB port starts the converter. Together with our SmartExplorer software it can be used to test the device, configure communication settings and log data.

PMU485 is intended to be used as an installation or service tool to set up and test a device and its communication parameters. It can power and communicate with up to 10 radiometers connected in parallel, and SmartExplorer can display and log data from all of them. However, it can only power one DustIQ.

The PMU485 is an OEM product designed for, and marketed by, Kipp & Zonen.

Specifications

Communication interface	USB 2.0 to RS-485 2-wire
Baud rate	300 to 115200 baud
Power input	USB 5 V, 50 mA for Smart sensors, 400 mA for DustIQ
Power output	12 VDC, 50 mA for a Smart sensor (+10mA per extra sensor) 200 mA sustained (400 mA peak) for DustIQ
Ambient working temperature	0…+45°C
Storage temperature	-20…+60 °C
Protection degree	IP30, for indoor use only
Power isolation	None
Internal battery	Li-ion 14500
Dimensions and weight	6 x 6 x 3 cm, 150 g including 1,5 m USB cable