

845-PE-RS Interface



The 845-PE-RS Virtual Power Meter provides easy integration into automation systems (e.g. PLC) using RS-232. It also turns a PC or laptop into a full-fledged Newport laser power and energy meter. The 845-PE-RS also features an analog output which provides an output voltage proportional to the power/energy measured. Just install the PMManager software, plug the sensor into the 845-PE-RS and connect with a standard RS-232 cable to your PC.



Features and Benefits

- Measure down to picowatts with photodiode sensors
- Measure up to 5 kW with thermopile sensors
- RS232 interface with powerful PMManager™ PC application
- Advanced logging and data processing with included PMManager
- Plug and play with all standard Newport smart sensors
- Analog output in autonomous mode
- Robust connectors, suited for semi-industrial environment
- Pulsed Power measurements with Thermopile detectors
- Low Frequency Power - power measurement from pulse cycle energy (for VCSEL)

Benefits

Newport's virtual meter allows connectivity of Newport's smart (DB-15) power and energy sensors to automation systems and computers using RS-232 communication.

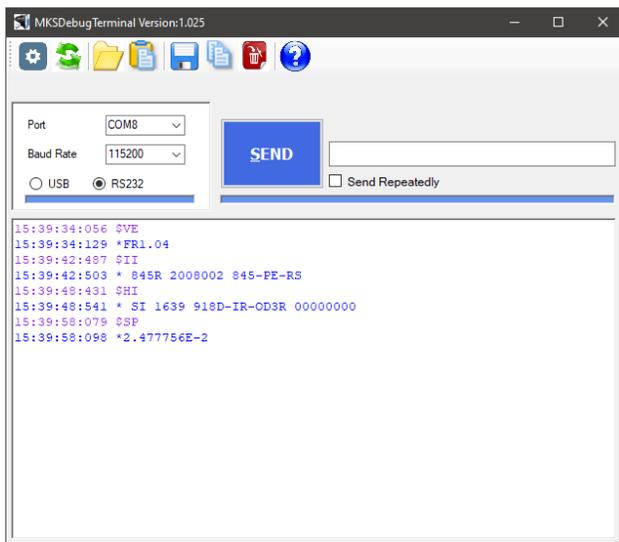
Smart Sensor to 845-PE-RS to PC

The sensor is connected to the 845-PE-RS which sends the measurement results to the PLC or the destination computer. The 845-PE-RS has an analog output which provides an output voltage proportional to the power/energy measured.

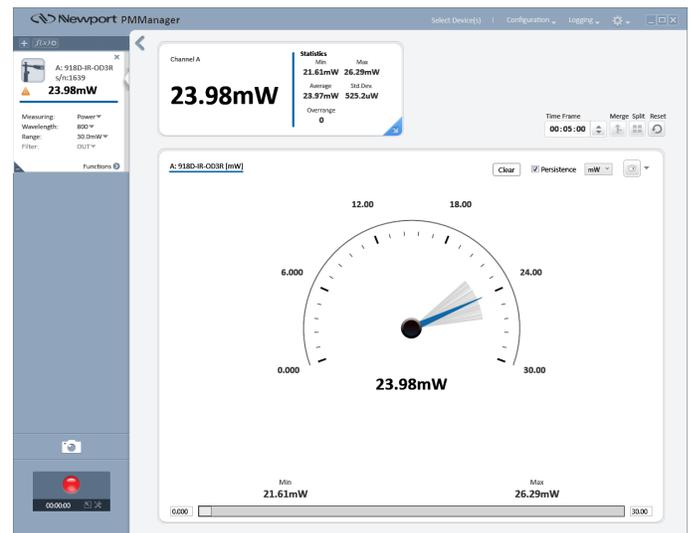
When using the 845-PE-RS with a PC/Laptop, install the PMManager software, plug the sensor into the

845-PE-RS module and connect the 845-PE-RS with a standard RS-232 cable to a PC serial port or USB to RS-232 adapter.

Allows connection to several 845-PE-RS modules to the PC at the same time.



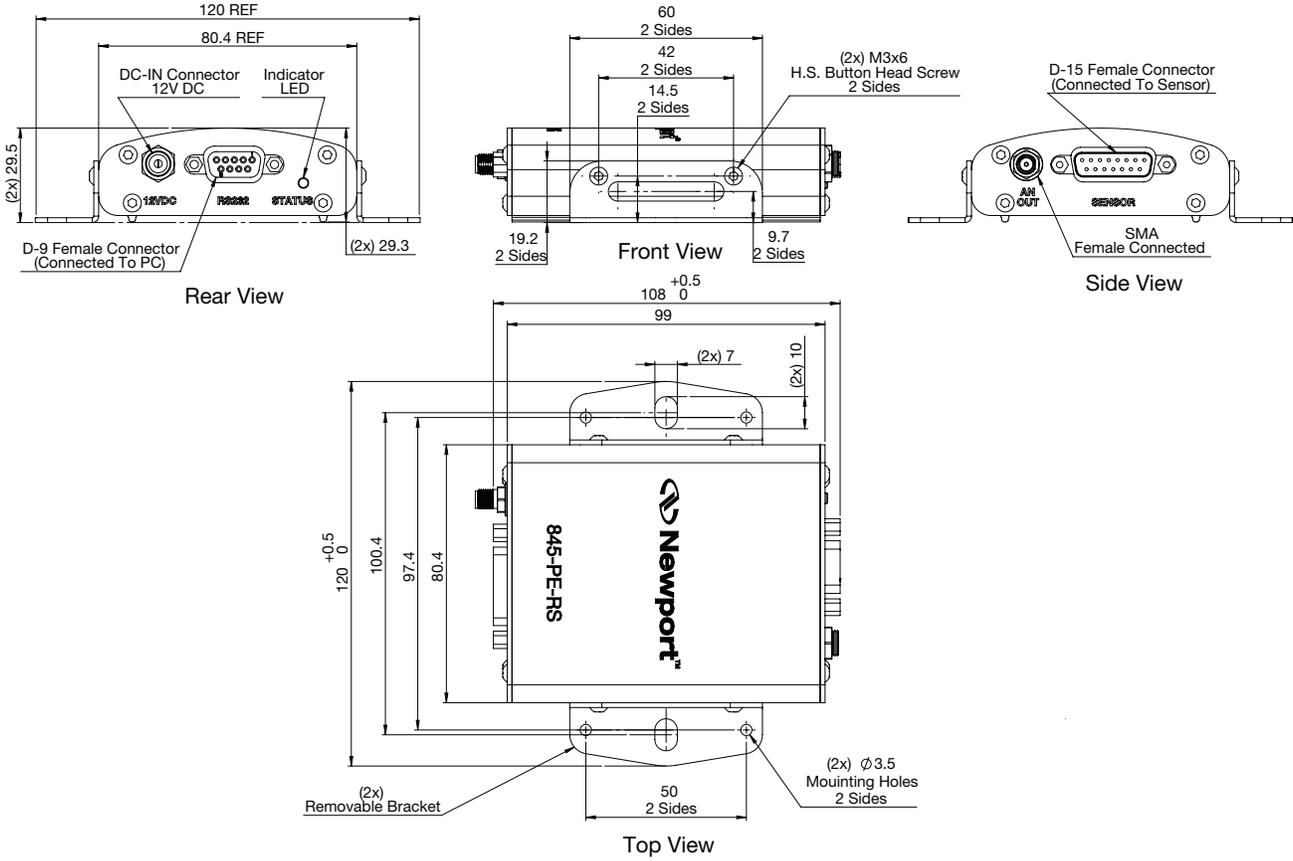
RS-322 Terminal



845-PE-RS with 918D Photodiode sensor and PMManager showing power needle screen

Dimensional Drawings

845-PE-RS (P/N 7Z01257)



Specifications

Power Measurement	
Power log period	Unlimited
Energy Measurement	
Max realtime data logging to PC	500HZ @ baudrate 115200 ^(a)
Trigger input and output	N.A.
Timing	Timestamp resolution in milliseconds (In microseconds when using Pyroelectric sensors)
General	
Number of sensors supported	One sensor per unit. Can combine several units with PMManager software for display of up to 8 sensors on one PC
Compatible sensors	Supports photodiode, thermal, irradiance and dosage sensors
Power supply	Industrial +12V wall cube power supply, plugs into jack on rear. The power supply is supplied with the device or can be ordered from your local distributor
Outputs	RS-232; Analog output with user selectable full-scale of 1, 2, 5 or 10V
Dimensions	114mm L x 80mm W x 29mm H
Compliance	CE, UKCA, China RoHS

(a) This is the data logging rate for every single point in turbo mode. Above that rate, the instrument will sample points but not log every single point

Ordering Information

Item	Description	Part Number
845-PE-RS	RS-232 virtual optical power meter	7Z01257
845-PE-RS RS-232 Cable	DB9 Male/Female 1.8-2 meter (1 unit supplied with product)	7E11216
845-PE-RS Power Supply	Power Supply AC/DC 12V 2A 2.5x5.5x13.8 S with Screw lock (1 unit supplied with product)	7E05093
845-PE-RS Analog Output Cable	Coax BNC-M to SMA-M RG-174 Cable 2 meter	7E01541