

## DIGITAL DC POWER METER

DPM-3332, 3321

### Description

Bi-Directional Digital DC Power Meter with large data bank & USB interface to upload to PC.

DPM-3332 can measure current in both direction or just one direction. Typical application using battery bank as base reference, the DPM-3332 data logs discharging current (negative current) & discharging Ah or the charging current (positive current) & charging Ah. This unique capability brings in related both the negative and the positive ampere hour, peak current & etc. values. The support of bidirectional current measurement reduces the complication on wiring and number of meter when in out current measure is needed.

The extra large data bank allow to store more data. It can store 30 hours data at 30 sec sampling rate or 60 hours at 60 sec or 180 hours at 180 sec sampling rate. There are 20 groups of data with selective sampling rate available, each time the DPM is powered up a new group with selective sample rate is formed.

This self contained DC Power Meter has built in data adapter to download logged data directly to a PC via USB. Download data is simple with only one connection to the micro USB port of the power meter and the USB port of the PC with the provided USB cable.

Model with Blue Tooth allows wireless data transfer and remote real time data monitoring on PC as well.



### Features

- Model: DPM-3332 with Internal Shunt measures: 0-30A (0.01A), 5-60V (0.01V).
- Model: DPM-3321 with external shunt (not supplied) measures: 50A/100A/200A with 50mV shunt.
- Bidirectional current sensing.
- Built in USB port for connecting with PC.
- Constantly displays: Current, Voltage, Power & Scrolling.
- Scrolling displays: Max. V, Max. I, Min. V, Min. I, Watt Hour, Amp Hour and Total operation time in hour, minute & seconds.
- Any one of scrolling displays can be selected for continuous display.
- Adjustable logging interval range from 30 seconds to 180 seconds.
- Max. 3,600 sets of V& I with time and last set of scrolled displays are stored.
- Max. 180 hours of recorded time when logging interval set to 180 sec.
- Data stored in the meter can be downloaded to PC through USB connection.
- Wireless data monitor and download (Bluetooth model only).
- Unit can be mounted on supplied snap-on bracket or magnetically on iron surface.

\* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

\* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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### Applications

- Battery Charging Analysis and Monitoring.
- Battery Discharge Analysis and Monitoring.
- Drone DC power consumption Analysis and Monitoring.
- Solar Panel Power Analysis and Monitoring.
- Wind Turbine DC Power Analysis and Monitoring.
- Bicycle DC Generator Power Analysis and Monitoring.

### Specifications

Models	DPM-3332		DPM-3321		
<b>Measured Parameters</b>					
Current Range Amp.	-20 to 20A continuous, -30 to 30A for 30min. (Negative indicate reversed current direction)		50A/ 50mV -50 to 50A	100A/ 50mV -100 to 100A	200A/ 50mV -200 to 200A
Voltage Range Volt.	5-60V or (0-60V with external DC source)				
Resolution	0.01V, 0.01A		0.01V, 0.01A	0.01V, 0.02A	0.01V, 0.05A
<b>Scrolling Display of Registered Parameters</b>					
Ampere Hour (Ah)	Max. recorded Ah: 99,999Ah				
Total Ah Stored	Ah < 1,000	1,000 < Ah < 10,000	Ah > 10,000		
Resolution of Ah	0.01Ah	0.1Ah	1Ah		
Peak Watt (Wp) registered	Maximum recorded W: 3600W Resolution of W: 0.1W		Maximum recorded W: 12,000W Resolution of W: 0.1W for W<10,000W 1W for W>10,000W		
Energy: Kilo Watt Hour (KWH)	0-9999.9 kWh, 0.1kWh				
Registered Peak Voltage (Vp), Min. Voltage (Vm), Peak forward Current (Ap), Peak backward Current (-Ap)	The new high and low values of voltage, highest forward and backward values of current will replace the old ones during the metering period and registered at the finish of the metering period.				
Accumulative Max. Operation Period Logged	180 Hours				
Scrolling Speed on LCD	3sec. for one parameter				
Data Logging Interval	Selectable from 30sec. to 180sec. (default 180sec.)				
Operation Voltage and Current	5-60V and 15mA (non bluetooth model) ; 5-60V and 35mA (bluetooth model)				
Operation Condition	0-40°C				
Storage Condition	-10°C to +60°C				
<b>Construction</b>					
LCD Display	VA=54.0x14.4mm ; 16 character x2 row				
Housing Material	Poly-carbonate				
Dimension & Weight	75(L) x 45(W) x 23(D) mm / 3.0(L) x 1.8(W) x 0.9(D) inch ; 100 g / 3.5 oz				
Supplied Accessories	2 screw-on type connector blocks, snap-on mounter		2 screw-on type connector blocks, snap-on mounter, inline coupler connector		
Approvals	CE EN 61326				

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