



# Power Management Panel



4x ammeters, 4x voltmeters, 1x amp hour counter



The **Power Management Panel** is an extremely effective unit designed to monitor and display all the vital electrical information onboard.

It provides general on-board D/C electrical power management and enables important, potentially expensive, decisions to be made regarding faults and this information obtained also helps any third party engineer to identify problems.

The operation of the panel is based on 100 mV shunts. Shunts enable all current measurement to take place remotely from the instrument clusters, thus removing all the voltage drop and R.F.I. problems associated with running heavy duty cables up to a control panel and navigation instruments.

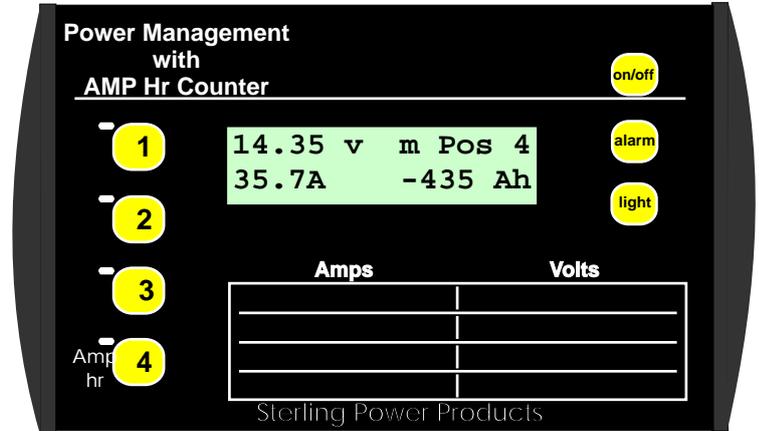
The panel has a built in amp hour counter on one channel and in total enables 4 different amp readings, 4 different volt readings, and one amp hour counter.

**The shunts of the system can be fitted in negative or positive cables (unlike most others).** The counter counts the amps going into and out of the battery system. The amp hour counter setup and function are completely automatic and requires no intervention from the user.

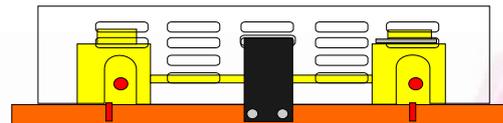
The background light ensures perfect legibility in daylight, direct sunlight and at night.

Each panel comes complete with a 200 amp shunt, (up to 3 extra shunts may be purchased) and a list of labels for the panel front.

The plastic box can either be surface or flush mounted by using the new parts.



Power Management Panel with Amp Hour Counter  
(Includes 1x 200 amp brass shunt)

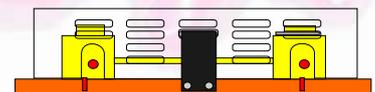


200 amp shunt

Shunt included

Power Consumption = 0.5 mA off/0.7 mA on  
Max readable current = 199 A D/C  
Max display volts = 199 V D/C  
Safe to over 1000 amp surges  
L.E.D. Background light.  
amp hr ctr up to 7999 amps  
Screen = 16 digit 2 line L.C.D.  
Back light/switched  
Accuracy = + or - 1%

Extra Shunts available, 200 + 400 amp



200 amp shunt = 200Lx40Wx50H  
400 amp shunt = 260Lx55Wx50H

Power Management Panel			
D/C voltage	Size L x W x D mm	Weight kg	Part nos
12 & 24	170 x 90 x 40	0.25	PMP1
Extra 200 amp shunt			S200A
Extra 400 amp shunt			S400A

# Power Management Panel

Sterling  
smart



1x ammeters, 3x voltmeters, 1x amp hour counter



## Key functions over competitors:

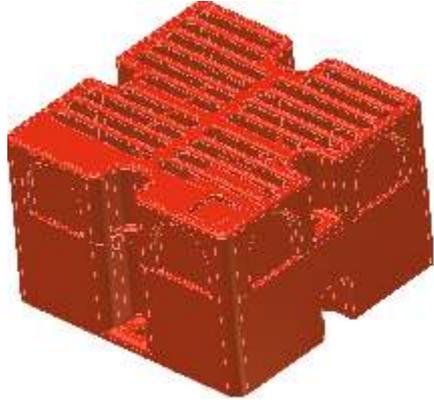
The **Power Management Panel** makes full use of the intelligent shunt concept where all measurements take place at the shunt and then the data is transmitted to the remote, this allows the remote to be much smaller and can now fit in a 54mm cut hole.

The unit can be used on both **positive** and **negative** cables making the unit extremely flexible.

Both the remote and the shunts are epoxy encased for water protection and protection from vibrations.

The LED is multicoloured allowing different colours to be displayed to show different activity on the channel.

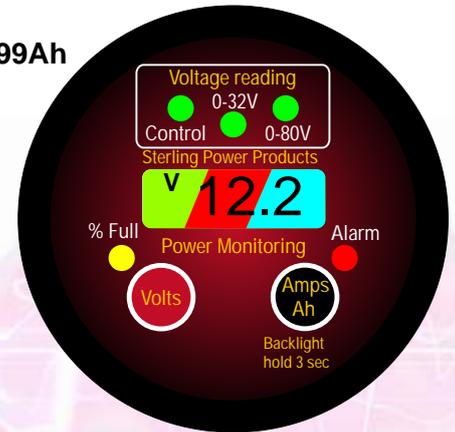
The Ah counter can read as **high as 999Ah**



**Intelligent shunt:** Rather than putting the brains of the operation in the remote multimeters the intelligent shunt process all the information at the shunt. This ensure accurate digital streaming up to the remote control ensuring no corruption of the data; this also reduces the size of the remote control.

## Functions:

- 3 x voltmeters (accurate to 0.01V)
- Ammeter 0.01 - 500A ( depending on shunt ) ( 200A continuous).
- Ampere hour counter up to 999Ah (adjustable alarm)
- Suitable for up to 2000Ah battery bank (1200Ah for lithium)
- Power consumption on sleep (unit still counting) = < 1mA (0.001A)
- Power consumption active (screen working no background light) = < 2mA
- Power consumption with background light = 10mA
- Background light changes colour depending on activity.  
Green ( within parameters ) Blue ( charging )  
Red ( low battery requiring attention )
- Adjustable buzzer alarm, can be deactivated
- Comes preset to use with no adjustments
- Fully adjustable, alarms and warnings
- Readings can be locked or allowed to scroll
- Background light switchable, plus changes colour depending on operational events i.e. red for danger, green for ok, blue for charging etc.
- 12/24V unit auto.



## REMOTE CONTROL

54 mm hole cut  
68 mm outer frame diameter  
Panel depth 0-30 mm

## Specification:

12-24V base voltage

## Quiescent current:

with no display active ( sleep mode ) 0.001A  
with display active and background light 0.008

Voltmeters 0-36V

ammeter 0-500A

ammeter accuracy between:

0-1A / 0.01A resolution

10-100A / 1A resolution

Ah capacity 999Ah, suitable

for up to 2000Ah battery bank

Ah accuracy +/- 2%

Product	Continuous current	Overload ability	Part Nos
Panel Meter ( no shunt )			PM1
200A shunt	200A	100A	PMS200
Panel meter with 100A shunt			PM200

**STERLING  
POWER**

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