

# battery management systems

## Powercentre

# 3000 4000



The last few years have seen a rapid growth in the quantity of electrical equipment now being installed in yachts and cruisers. This has resulted in far greater demands being made on both battery capacity, and the recharge system with a corresponding increase in the likelihood of a flat battery. In the past this tended to be an inconvenience only, except with single battery layouts, but with the advent of modern navigational equipment it takes on a more serious aspect, not only is the system lost, but also the data stored in the memory.

It was against this new background that the POWERCENTRE system has been developed with

- ⊙ Modular units to suit single and split battery layouts
- ⊙ Power lock-out to prevent flat batteries
- ⊙ An integral LED display for both low battery and battery recharge levels
- ⊙ A programmed battery charge relay system for improved split battery charging
- ⊙ Fully automatic operation for all control and display functions.

# Powercentre

# Powercentre 3000

## Model 3300:

Designed for use in yachts and cruisers with a 12V DC system where electrical equipment is supplied from the engine battery, the unit offers the following standard features:-

**LED DISPLAY** - the following nominal battery levels will be automatically displayed,

- 25% ..... )
- 33% ..... ) capacity remaining
- 45% ..... )
- battery on charge
- 70% ..... ) minimum recharge level

**POWER LOCK-OUT** - this becomes operational when the 25% battery level is reached, and enables all non-essential equipment to be automatically isolated, minimising battery drain until it is practical to recharge the battery when full power will be restored, the unit will control one or two relays Pt No 4330:03.

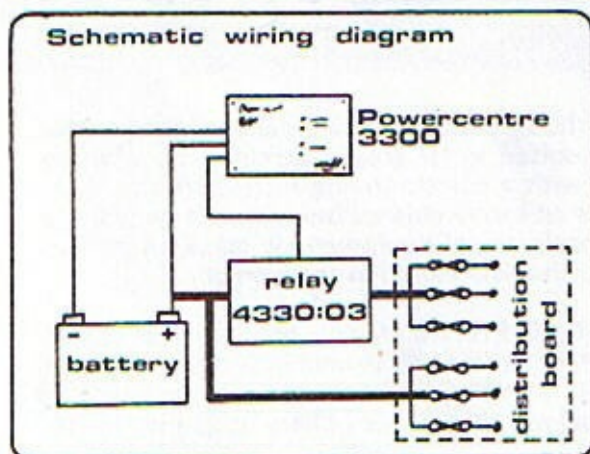
**PERIPHERAL UNITS** - the unit is designed to provide a control function for two further systems that will be released at a later date, these comprise automatic bilge pump control, and a light sensing switch for navigation or anchor light operation.

**HOUSING** - fully sealed plastic moulding.

SIZE -	Unit overall	Mounting appature
Height	87mm	65mm
Width	122mm	100mm
Depth	38mm	32mm

### POWER CONSUMPTION -

Monitoring - 0.07W; Display - 0.12W



# Powercentre 4000

## Model 4300:

Designed for use with 12V DC split battery installations, where one battery is reserved solely for engine use. The unit offers the following standard features:-

**LED DISPLAY** - the following nominal battery levels will be automatically displayed,

- Engine Battery:
- 60% ..... ) Capacity remaining
- 50% ..... )

- Auxiliary Battery:
- 50% ..... )
- 25% ..... ) Capacity remaining
- 15% ..... )

### Battery Charge:

- ..... ) Auxiliary battery on charge
- 70% ..... ) Minimum recharge level

Provision is also made to supply a remote battery charge LED display for cockpit mounting.

**POWER LOCK-OUT** - this becomes operational when the 15% battery level is reached, and enables all non-essential equipment to be automatically isolated, minimising battery drain until it is practical to recharge the battery when full power will be restored, the unit will control one or two relays Pt No 4330:03.

**SPLIT BATTERY CHARGING** - an automatic programmed relay system is employed Pt No 4330:01 providing greater control, flexibility and efficiency than blocking diodes or manual change-over. Initially all charge is diverted to the engine battery until a satisfactory level is reached, from this point the auxiliary battery will be connected into circuit and receive the majority of the alternator output. Where mains charging is employed for the auxiliary battery, upon a satisfactory recharge level being achieved the engine battery will also be placed on charge. In all cases the engine battery is isolated from the auxiliary battery and loads when charging ceases.

**HOUSING** - fully sealed plastic moulding.

SIZE -	Unit overall	Mounting appature
Height	87mm	65mm
Width	122mm	100mm
Depth	38mm	32mm

### POWER CONSUMPTION -

Monitoring - 0.1W; Display - 0.36W

Kdd.PC3,4.1.82.PP

*Our policy is one of continuous development, we therefore reserve the right to make changes or modifications as or when required.*

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