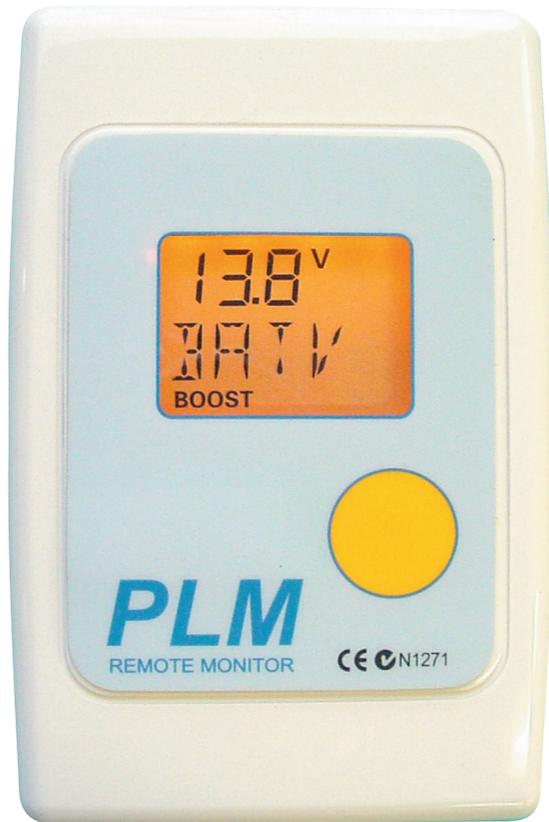


PLM Remote Monitor



PLM Remote Monitor

Specifications

Dimensions:

76 W x 116 H x 28 D mm

Current Draw:

Standby 1.9mA

With back lighting on 11.9mA

With audible alarm 5.8mA

Maximum 15.8mA

Mounting hole centres 84 mm

Vertical on the centre line

Shipping weight 130 Grams

Description

The PLM remote monitor is a device which allows remote user access to a PL series charge controller. It shows exactly the same information as the PL screen, and the PLM button behaves in exactly the same way as the button on the PL. This means you can use the PLM for everything you would normally do at the PL itself, only in a more convenient or second location. You can access all the same information and adjust all the same settings as you can on the PL itself.

New Features

There are two features in the PLM which are not found in the PL. These are LED back-lighting, and an audible/visual Alarm. The latest model also has a membrane keypad instead of a through-panel button.

LED Back-lighting

The LCD display is back lit with yellow LED light. The display and back-light will turn off if you have not pushed the button for 16 minutes (just like the PL display).

Alarm (Audible/Visual):

There is an alarm which is driven by the alarm (ALRM) function of the PL. This is a low voltage alarm. The alarm is capable of giving an audible alarm from the

built in buzzer, or a visual alarm by flashing the back lighting, or both at the same time. The visual alarm feature defaults to ON and the audible alarm feature defaults to OFF whenever power is removed from the PLM and then re-applied (eg . system power down, or PLM cable unplugged). If you want to change the present indication settings, go to the DATA/SOLV screen. In this screen, there is an "A" which is normally used to show Amps in other screens, but in this case indicates "AUDIBLE". There is also a "V" which normally shows voltage, but in this case indicates "VISUAL".

Use long pushes to switch between the four possibilities. You can have "A", "V", both, or neither. Note, this indication of "A" (audible) and "V" (visual) will not appear on the SOLV screen of the PL as the audible and visual alarm features only exist in the PLM, however an 'A' can appear on the SOLV screen of the PL indicating the PL charge controller settings are "ADJUSTABLE" (See 'Settings Lockout' in the PL Reference Manual for further details). The 'Settings Lockout' function cannot be changed from the PLM. You can set the voltage for the alarm to operate at SET/MODE/ALRM if you are using PROG4. Otherwise the alarm voltage will default to 11.4V for a 12V system (scale for other system voltages).

Installation

The PLM is packaged in a modified CLIPSAL® 2000 series switch plate. This is a standard electrical fitting and is mounted in very much the same way as a typical light switch or power point. The screws supplied can be used to mount the PLM directly to timber or metal surfaces. CLIPSAL® 2000 series accessories can be used to mount it to plasterboard, masonry, and other surfaces. Your electrician will be able to supply and fit these accessories.

Connection to the PL should be via a shielded cable, with the cable shield connected to the 'BAT-' terminal at the PL end only. Use a WYS cable for PL20/40 connection, WZS cable for PL60 connection, or WXS (extension) cable if connecting from a PL accessory like the PLS2. You can order custom length cables, with the preferred method being a custom length WXS (extension) cable connected to a standard WYS or WZS cable via an in-line joiner (PLJ), or a customer length WXS (extension) cable connected between the PLM and any PL accessory (eg. PLS2). The PLM is connected via an RJ12 socket on the hidden side. If you want to 'rough in' the wiring in advance of the installation (for example while your

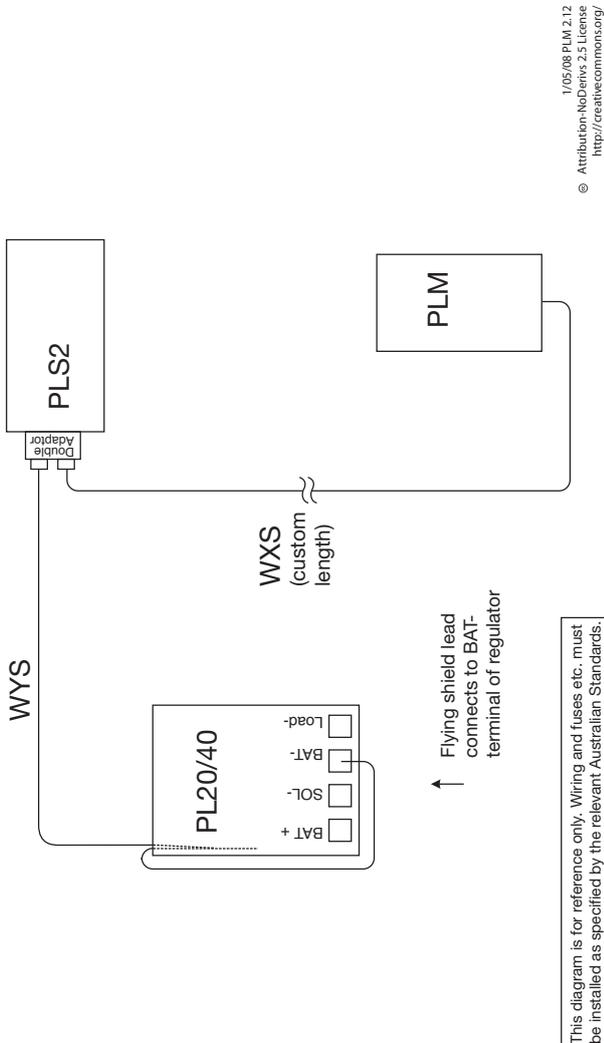
walls are being built), use a shielded four conductor cable of a type you can crimp an RJ12 plug to (eg. shielded flat cable or shielded CAT5 data cable). The PLM should be mounted vertically. The PLM can be damaged by incorrect wiring, so care should be taken to ensure that this is correct before connection. Note: A constant screen display of "19 STRT" indicates that there is a wiring fault between the PL and the PLM.

WARNING: The cable required is NOT wired the same as a standard telephone cable. Inline joiners (PLJ) and double adaptors from other suppliers may not have the same internal wiring and could cause damage.

Limitations

The PLM can be used with up to 100 metres of cable, and up to two other PL accessories. For example you could use the PLM with 1 X PLI and 1 X PLS2 or with 2 X PLS2, but not all three at the same time.

PL20 / 40 Shielded Cables (Extended Distance)



PL60 Shielded Cables (Extended Distance)

