

# Plasmatronics PLM

## Remote Monitor for PL Series Regulators



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

The PLM adds two features to the PL regulator:

- LED Back-lighting
- Alarm

### LED Back-lighting

The LCD display is back lit with yellow LED light. The display will turn off if you have not pushed the button for 16 minutes, just like the PL display. The Back-lighting will turn off at the same time.

### Alarm

There is an alarm which is driven by the alarm (ALRM) function of the PL. This low voltage alarm is capable of giving an audible alarm from the built in buzzer or a visual alarm by flashing the back lighting, or both. The PLM is shipped with the audible alarm feature set OFF and the visual alarm feature set ON. If you want to change these settings, go to the DATA/SOLV screen. In this screen, there is an "A" which is normally used to show Amps in other screens. In this screen it shows "AUDIBLE". There is also a "V" which normally shows voltage. Here it shows "VISUAL". Use long pushes to switch between the four possibilities. You can have "A", "V", both, or neither.

Note, this "A" and "V" will not appear on the SOLV screen of the PL as the audible and visual alarm features only exist in 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 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. 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 is via a WYS [RGX-P28] or WZS [RGX-P27] cable or a combination of both as appropriate. In general, use a WYS for a PL20 or PL40 and a WZS for a PL60. You can order a WZS or WYS made to the length you need. The PLM is connected via an RJ11 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 four conductor flat telephone cable or another cable of a type you can crimp an RJ11 plug to.

The PLM should be mounted vertically.

### 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 PL1 and 1 x PLS2 or with 2 x PLS2, but not all three at the same time.

### Specifications

Dimensions (mm)	76(W) x 116(H) x 28(D)
Current Draw	
Standby	1.9 mA
With back lighting on	11.9 mA
With audible alarm	5.8 mA
Maximum	15.8 mA
RPC Code	RGX-P04



## RAINBOW POWER COMPANY LTD

Designers and Installers of Solar Systems since 1987

1 Alternative Way (PO Box 20240)

tel: (02) 6689 1430

international: +61 2 6689 1088

email: sales@rpc.com.au

A.B.N. 74 003 323 420

Nimbin NSW 2480 Australia

fax: (02) 6689 1109

international: +61 2 6689 1109

website: www.rpc.com.au

Lic:198555C (NSW). 69172 (Qld)