ALLEN&HEATH

PL-6 Fader Remote

AP5197

User Guide

Introduction   The **PL-6** is one of several remote control devices available for the **iDR** audio mix processor system. It is part of the Allen & Heath **PL Series** of wall plates and remote controllers. It can be mounted into a plinth or custom furniture, or used free standing. A suitable template with cutting details is provided for custom application. The **PL-6** interfaces with the Allen & Heath PL-Anet serial port. Multiple **PL-6** units can be daisy chained together along with other PL-Anet devices using CAT5 cable. A terminator is provided for plugging into the last unit in the chain. For information on the full range of **PL** products available visit http://www.allen-heath.com. The **PL-6** control and indicator functions are programmed using the iDR System Manager software. Space is provided next to the controls for custom labelling. The **PL-6** is ideal as a remote mix controller, for example as a simple operator controlled fader panel in an installed sound system, or as a personal musicians on-stage mix controller with in-ear monitors. The installer can program the unit according to the requirements of the application, providing the degree of control needed by the day to day operator.

8 Faders can be configured individually for input, output, group or crosspoint level control. Minimum and maximum ranges can be set. **16 Switches**, arranged as two per fader, can be configured as combinations of level up/down, mute toggle, polarity toggle, audio monitor select, or patch recall. **24 LED indicators**, arranged as three per fader, can be configured as combinations of 3 colour signal meters, mute status, or patch related 3 colour LED indication. Controls can be configured as unused if not required. A single 3 colour **Status LED** displays PL-Anet power and communication status. **Custom labels** can be fitted into the recessed areas provided. Recommended height is 6mm.

This product complies with the European Electromagnetic Compatibility directives 89/336/EEC & 92/31/EEC.

NOTE: Any changes or modifications to the equipment not approved by Allen & Heath could void the compliance of the equipment. Whilst we believe the information in this guide to be reliable we do not assume responsibility for inaccuracies. We also reserve the right to make changes in the interest of further product development.

IMPORTANT :

⚠ **Observe the local standards which may apply to the installation regarding the grade of cable and installation methods.**

⚠ **Do not install the equipment where it is subject to moisture, heat, vibration or excessive movement.**

⚠ **Connect this equipment to the Allen & Heath PL-Anet port only. Test for correct wiring and installation before switching the equipment on.**

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Number of devices   the maximum number of **PL** devices that can be connected depends on their type and the distances involved.   Maximum cable length is 300 metres (1000 feet). Connect up to 12x **PL-6** units per PL-Anet chain, but fewer if long distances or additional PL types are involved. It is important that you check this first by refering to the PL Combinations Calculator spreadsheet available from the Allen & Heath web site.
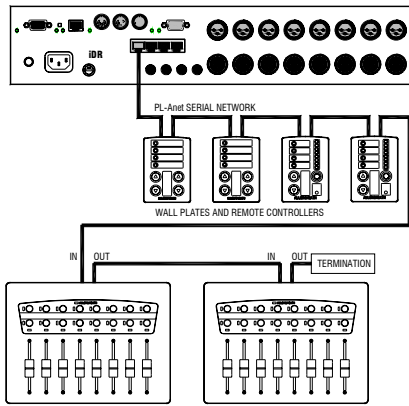
PL-Anet   is the proprietary Allen & Heath system for daisy chaining remote controllers. It is an RS485 serial connection that uses CAT5 STP cable to communicate between devices over long distances. It requires a terminator at the last unit in the chain. PL-Anet only works with Allen & Heath **PL** devices. The connection includes +20V DC to power the connected devices. The **iDR-8** port is shown here.
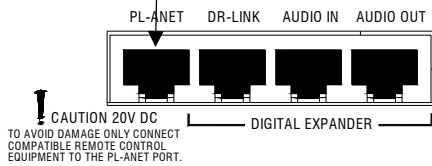
Mounting into furniture   Cutting template details are shown here for mounting the **PL-6** into a plinth or other furniture. Secure the unit in place using 4x fixing screws up to 3.5mm diameter.
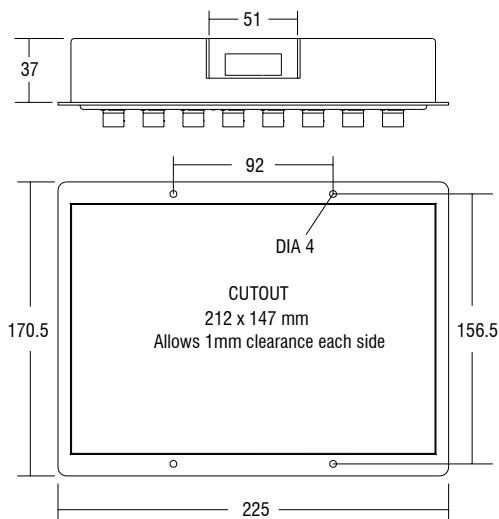
Grounding   The exposed metal panels are grounded through the PL-Anet cable shield. There are no dangerous voltages inside.

PL-Anet connections   Underside RJ45 ports are provided for connecting to PL-Anet. These are recessed so that the cables can be hidden from view. The IN port connects to the previous unit in the chain. The OUT port connects to the next unit, or end of chain termination. Use flame retardent CAT5 STP (shielded twisted pair) RJ45 cables.
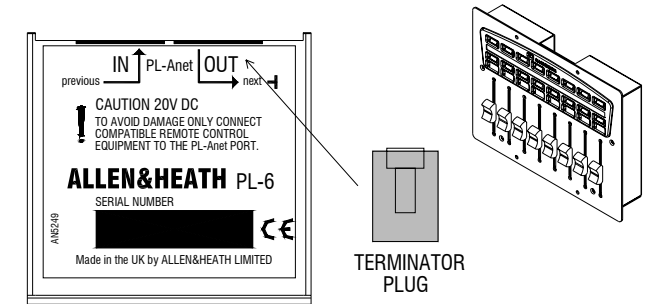
End of chain termination   As with any RS485 system, the last **PL** device needs to have a terminating resistor fitted to its output port. The **PL-6** is shipped with an RJ45 terminator plug with this resistor built in. Plug the terminator into the last unit in the PL-Anet chain. If the **PL-6** is the only unit connected make sure the terminator is plugged into its output port.

⚠️ **Testing the wiring**   Before powering up the system make sure all the wiring is inspected and continuity tested. This is important as wiring errors may result in damage to the equipment.

Powering up the PL system   Ensure that the **iDR** PL-Anet port is active. Its green 'active' LED should be lit. If not, use the iDR System Manager software Communications Option menu to activate the port. Plug in the PL-Anet cable. The screen should display icons on the right hand toolbar for each PL device it recognises. Check that the **PL-6** front panel status LED displays green. If red or yellow is displayed then check for wiring or equipment faults.
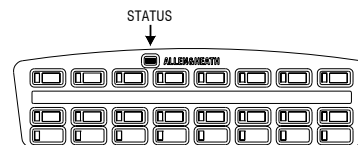
Configuring the controls   The faders, switches and LED indicators are configured using the iDR System Manager software. Note that the LEDs are 3-colour and can display green, red, yellow or off. Refer to the Help file that comes with the software.
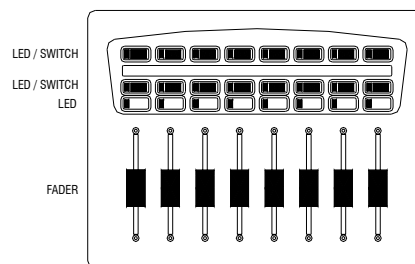
Further information   Visit the Allen & Heath web site for information on the full PL product range www.allen-heath.com. If further assistance is required please contact Allen & Heath technical support.