



**LEADING THE WORLD IN DIGITAL DIMMING
PRE-INSTALLATION GUIDE FOR
PROGRAMMABLE LIGHTING CONTROLLER
P50, P100, P400 & P800**

USER NOTICE

Every effort has been made to ensure that the information in this guide is accurate. Futronix is not responsible for printing or clerical errors. Information in this document is subject to change without notice and does not represent a commitment on the part of Futronix.

Futronix provides this guide "As is" without warranty of any kind, either express or implied, including but not limited to implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall Futronix be liable for any loss or profits, loss of business, losses arising from the loss of lighting, interruption of business, or for indirect, special, incidental, or consequential damages of any kind, even if Futronix has been advised of the possibility of such damages arising from any defect or error in this guide or any product. Specifications are subject to change without any notice or obligation on the part of the manufacturer.

***The following should be observed:
These products should be fitted by a qualified electrician***

Copyright 2003 Futronix All Rights Reserved.

USA

Freephone: 1-8888-033-604

Call for state distributor

Email: technical@futronix.us

Futronix House

143 Croydon Road,

Caterham

Surrey, UK

CR3 6PF

Tel: 01883 373 3333

Website: <http://www.futronix.info>

Technical support: technical@futronix.info

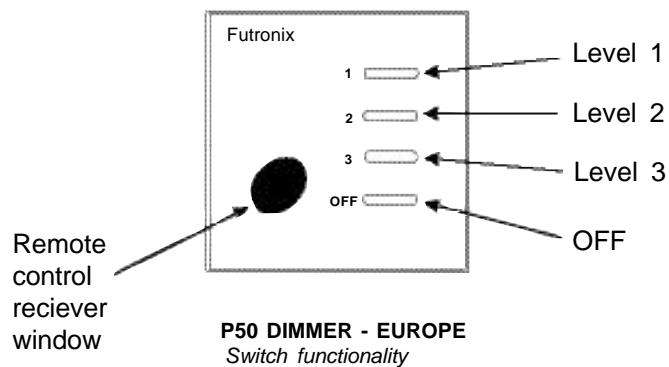
**PRE-INSTALLATION GUIDE FOR
P50, P100, P400 & P800 PROGRAMMABLE
LIGHTING CONTROLLERS**

This guide is intended for customers/ prospective customers who require pre-installation information on the Futronix consumer range of digital dimmers.

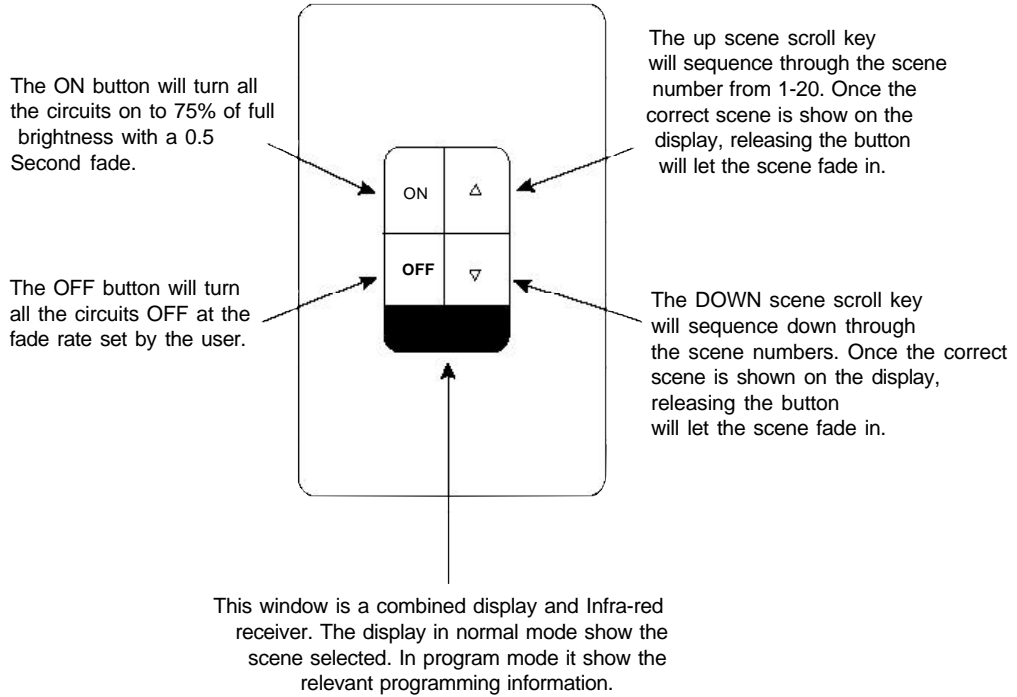
If you have just purchased a Futronix Digital lighting controller, thank you for your purchase. If you are considering purchasing Futronix, thank you for taking the time to read this guide.

At Futronix we dedicate ourselves to the manufacture of high quality products. Futronix dimmers are designed to be easy to install, flexible and operate reliably for many years.

This range of dimmers feature sophisticated digital dimming, incorporating Futronix's patented dimmer on a chip technology.

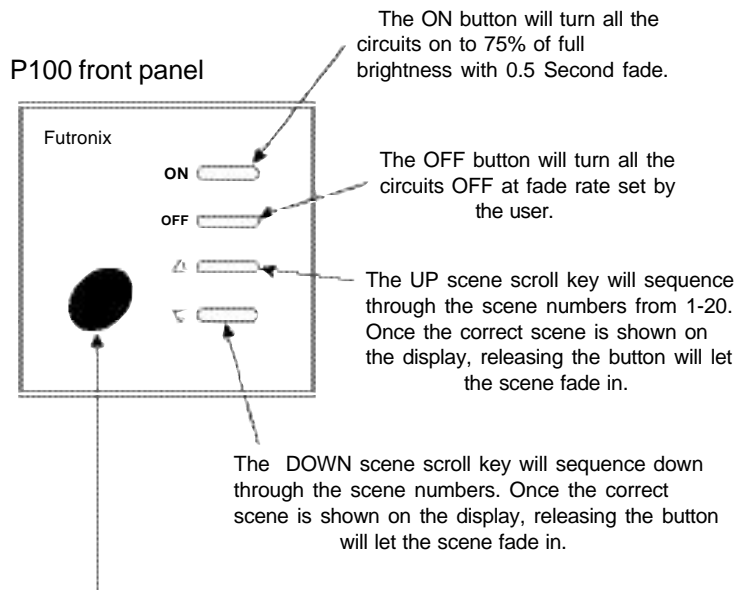


The P100 DIMMER - USA
Switch functionality



The P100 DIMMER - EUROPE

Switch functionality



This window is a combined display and Infra-red receiver. The display in normal mode shows the scene selected. In program mode it shows the relevant programming information.

THE DIFFERENT LIGHT SOURCES THAT CAN BE EITHER DIMMED OR SWITCHED

Diagram 3

MODEL TYPE	DIMMABLE LAMPS	SWITCHABLE LAMPS
P50		
P100		
P400		
P800		

Lamp Type	TUNGSTEN	HALOGEN	LOW VOLTAGE (electronic)	LOW VOLTAGE (magnetic)	FLUORESCENT H F	FLUORESCENT PL	COMPACT FLUORESCENT
Key							

This table shows which lamp type each picture depicts.

Diagram 4

WHICH DIMMER IS CORRECT FOR YOU?

The number of lighting circuits should be the same or less than the number of channels on the dimmer. There are no minimum loads on the P100, P400 & P800 range of Futronix dimmers. This means unused channels can be left unconnected.

Diagram 5

FUTRONIX DIMMER	NUMBER OF CIRCUITS/ CHANNELS
P50	1
P100	2
P400	4
P800	8

THE LOAD IN WATTS OF EACH DIMMER MODEL

Check the wattage of the lamps and how many there will be on a circuit. The load on each circuit should be less than the wattage described for each channel on the dimmer. The **TOTAL** wattage of all the lights should not exceed the **TOTAL LOAD on the dimmer**.

Diagram 6

FUTRONIX DIMMER	MINIMUM LOAD PER CIRCUIT In Watts	MAXIMUM LOAD PER CIRCUIT In Watts	TOTAL LOAD ON THE DIMMER in Watts
P50	20	600	600
P100	No minimum	300	600
P400	No minimum	300	1200
P800	No minimum	1000 (do not exceed the TOTAL load)	2000

WIRING INFORMATION

The first thing when fitting a scene dimmer is to select the location of where it is to be mounted. This is usually near to an entrance or where an existing light switch or manual dimmer is located.

The next thing to consider is the lighting in the room - do you wish to upgrade it by fitting new lights or additional lighting? New lighting you might consider adding are wall lights, floor-mounted lights and low voltage lighting. All the lighting, new or old, should be wired back to your new dimmer. Correctly done, wiring alterations are considered "fit and forget" and represent a better solution than systems that rely on communications.

NEUTRAL

The P50 does NOT require a NEUTRAL or special wiring considerations. All the P100-400-800 range dimmers require a live and neutral supply (see diagram). If you are fitting your dimmer in an existing switch position, then there is very likely to be an existing Live supply. However, there may NOT be a neutral supply. If this is the case, then one will need to be fitted. This can be done at the same time as fitting any additional wiring for any new circuits. The preference is to common the light circuit neutrals elsewhere to save space in the dimmer wall box. All wiring should be done prior to fitting the mounting box and doing the plastering.

EARTH

All dimmers from this consumer range require an EARTH connection (except P50/ P100 USA and P400 FUTURE) which have plastic front panels. It is the responsibility of the person installing to make sure that the dimmer is adequately EARTHED.

P50

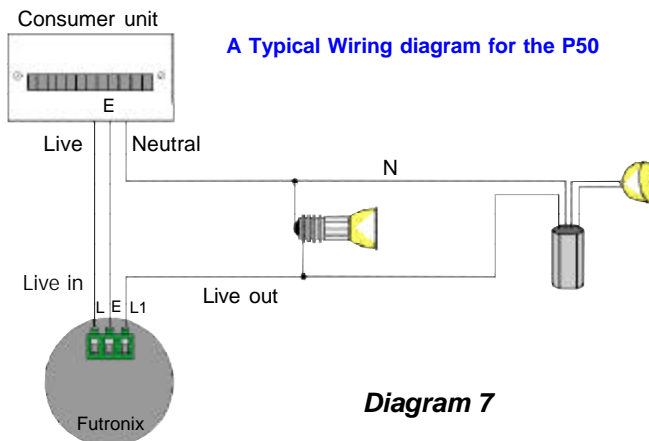
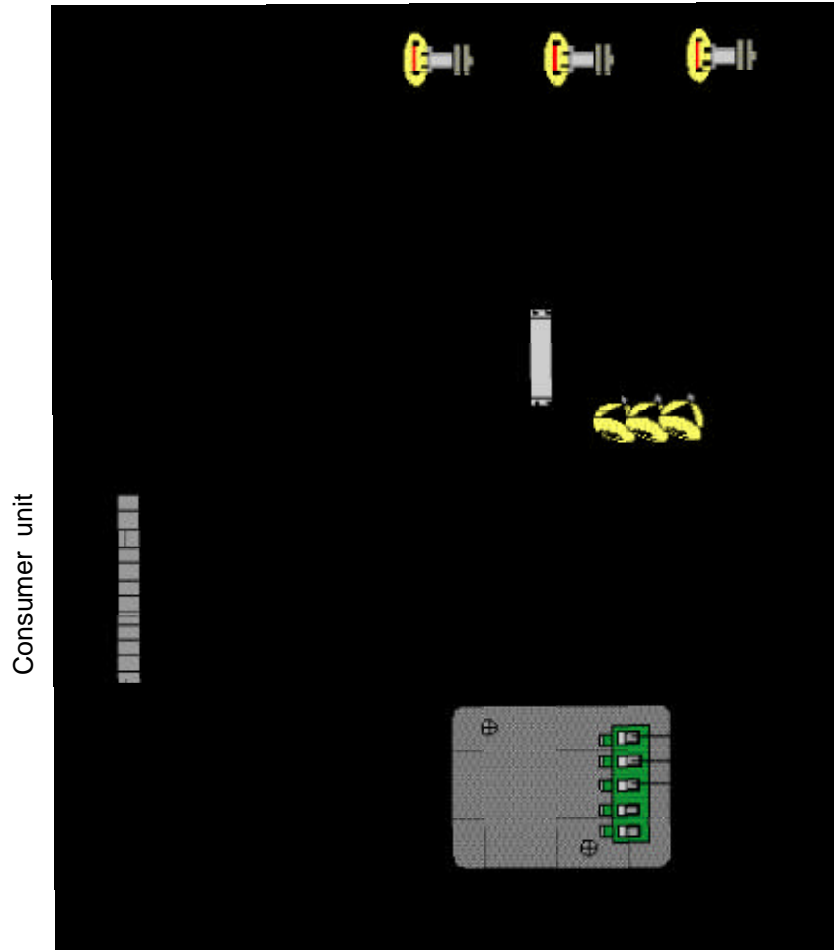
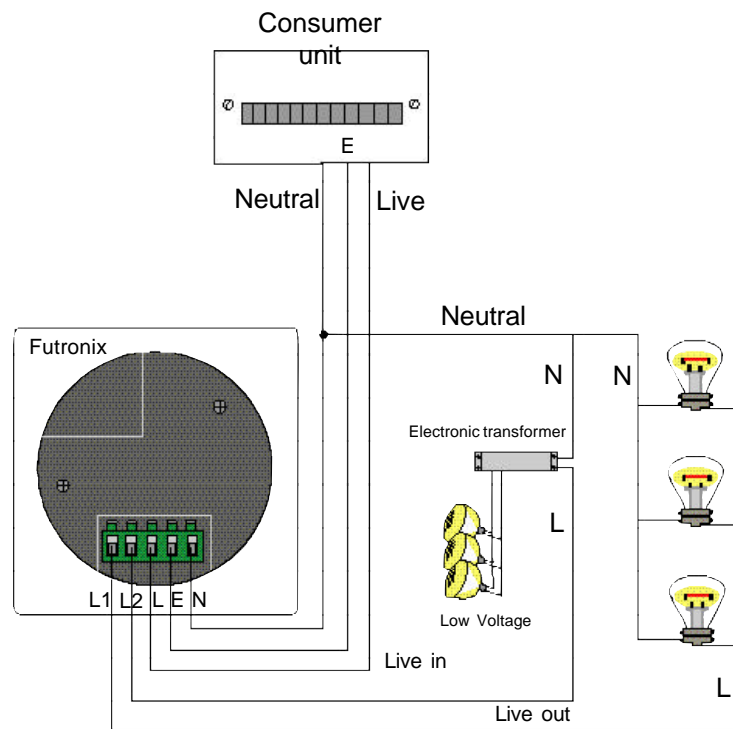


Diagram 8



A Typical Wiring diagram for the P100 USA

Diagram 9



A typical wiring diagram for the P100 EU

Diagram 10

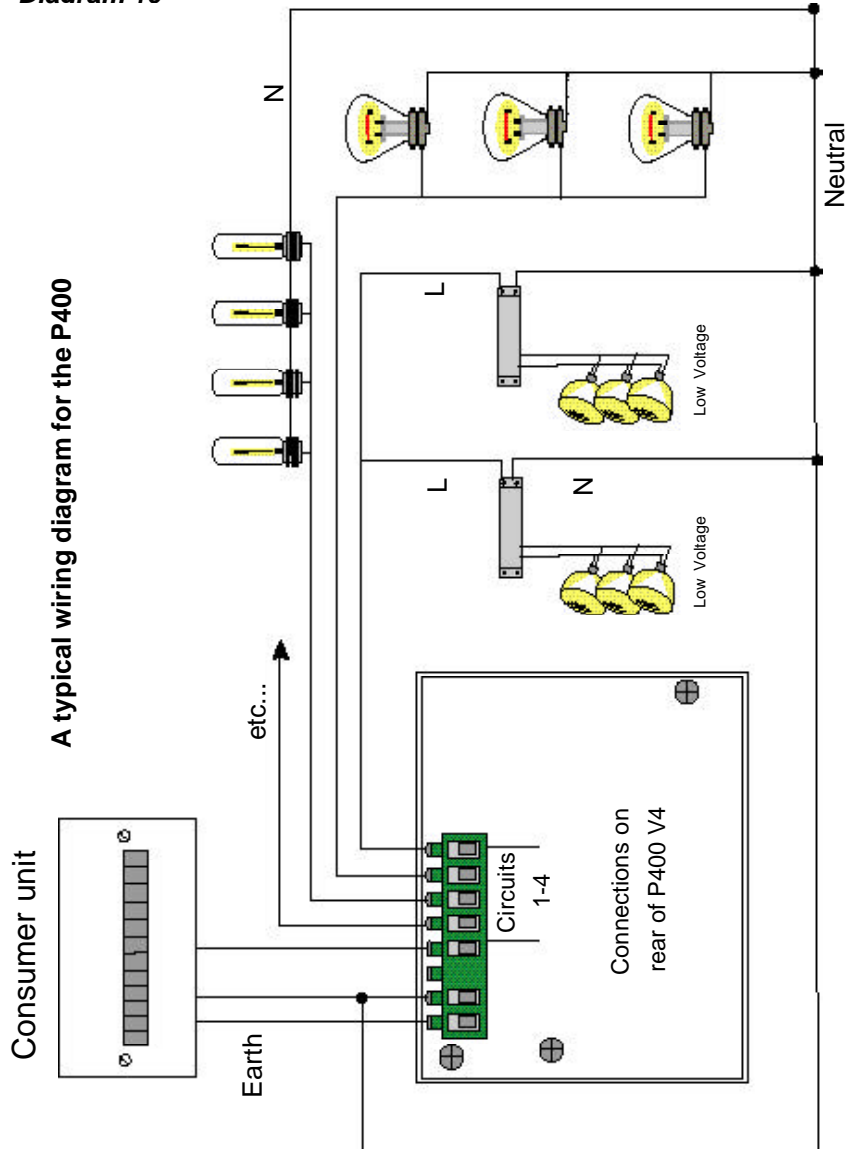
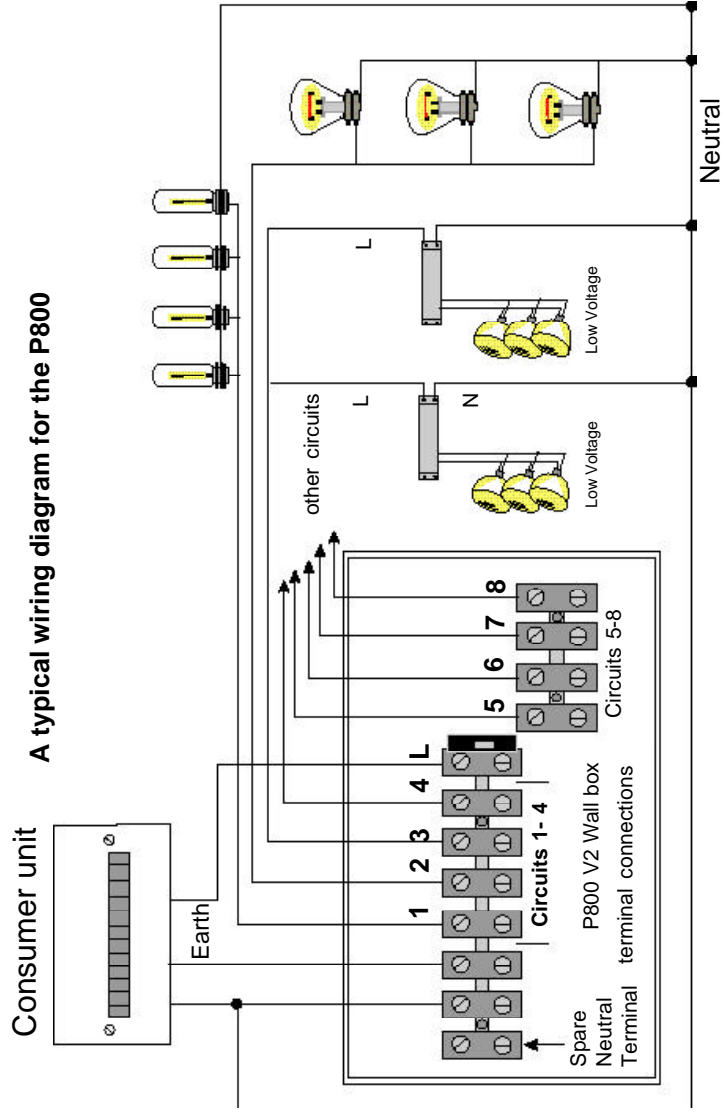


Diagram 11



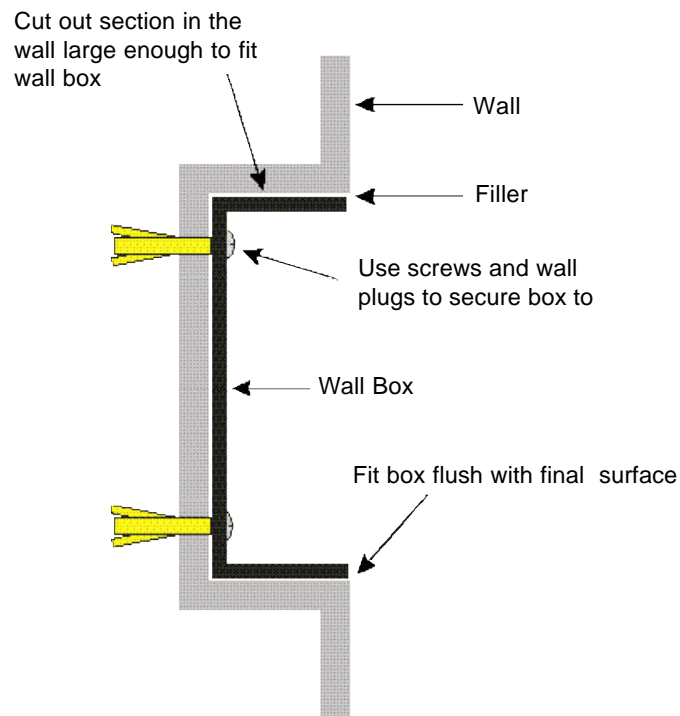
WALL BOX SIZES FOR EACH MODEL

Diagram 12

FUTRONIX DIMMER	Height	Width	Depth
P100 EU	75	75	47 (Metal)
P100 USA	77	50	60 (Metal/ Plastic)
P400 *	88	108	50 (Plastic)
P800 *	102	160	65 (Metal)

* Wall box supplied with dimmer, all measurements in mm

Diagram 13



TRANSFORMERS FOR LOW VOLTAGE LIGHTING –COMPATABILITY

This range of Futronix dimmers is designed to dim on the LEADING EDGE of the mains AC power supply sine wave. This is superior technology to LAGGING EDGE dimming used in some European countries. If you are using transformers supplied from these countries or light fittings with integral transformers, you will have to check to see that they can be dimmed by LEADING EDGE dimmers. This only applies to electronic transformers, wire wound ones can be dimmed by either type of dimmer.

Note: The P50 will only operate Tungsten or Halogen but not low Voltage Lamps.

The UK/ USA and most other countries in the world use LEADING EDGE dimming as standard. Exceptions are European countries such as Germany and Italy. If the transformer is of the wrong type it would either need to be changed or alternatively that circuit can be programmed from the remote control to be “switching only”. The circuit can then be set up to either turn ON or OFF on any scene without dimming.

PROGRAMMING THE P100, P400, P800 SCENE DIMMERS FROM REMOTE CONTROL

What is scene setting?

This is one of the most frequently asked questions. If you have a Futronix brochure, refer to the P400 page and you will see a picture of the same room depicting different scenes. (or see “Example of scene dimming” at www.futronix.info) Scenes like these can be set up by you and can be re-programmed at anytime. Each controller has 20 Scenes, though in practice most customers are unlikely to use more than 10. Each one of the 20 Scenes is a complete “look” to the room. Once programmed, the different “scenes” are selected using the switches on the front of the controller or by remote control or timer.

When a new Scene is selected it fades from the original set of Scene levels to the new set. This is called the Fade rate and can be set from 0.5 sec to 2 hours. You can also think of it as the time taken for one scene to fade to become the next scene. This time is programmed from the remote control handset along with all other functions incl., timer, events, exit delay, sleep timer & sequencing.

PROGRAMMING THE P50

The P50's programmable levels can be setup from the panel keys or from the (optional) remote control. Additionally raise/ lower, fade rate, power up level and sleep/ exit timer can all be adjusted using the remote control.