

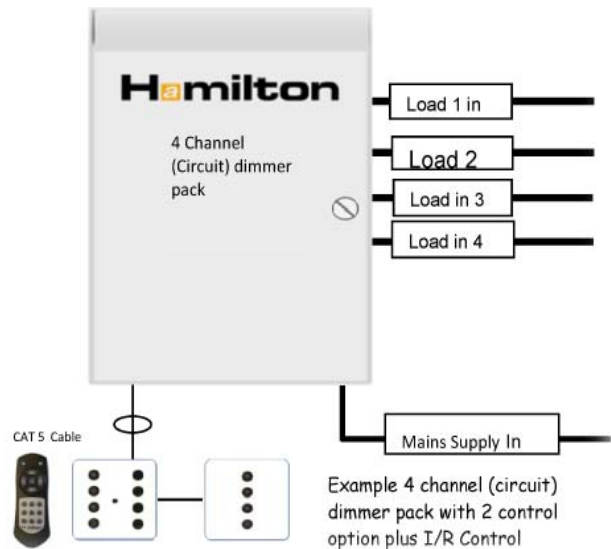
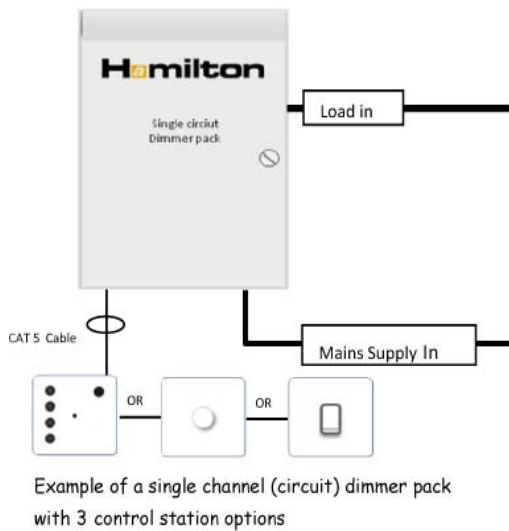
DIGITAL MERCURY EXPLAINED

Hamilton Digital Mercury Lighting Control System is one of the easiest systems to install and operate. Most competent electricians can install and maintain our systems without the use of specialist knowledge or commissioning. This also applies right through to the end user operation.

Installation

The dimmer pack consists of an enclosure housing the electronic power handling equipment. This should be mounted in a suitable and convenient location such as electrical switch room, cupboard or roof space. These locations must have good access and free airflow.

All power connections are made at the enclosure. Then a data network is created using cat 5 cable. The network links the dimmer pack(s) with the control stations.



Control stations

There are various control options available which are listed as follows:

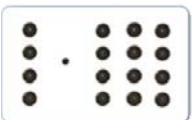
Programmable Control Stations



8 BUTTON CONTROL STATION This control station is suitable for **4 circuits**. It provides control of **4 programmable recall scenes** + 4 individual raise and lower circuit buttons + infra red.



12 BUTTON CONTROL STATION This control station is suitable for **8 circuits**. It provides control of **4 programmable recall scenes** + 8 individual raise and lower circuit buttons + infra red.



16 BUTTON CONTROL STATION This control station is suitable for **12 circuits**. It provides control of **4 programmable recall scenes** + 12 individual raise and lower circuit buttons + infra red.



Infra red control Suitable for use in conjunction with any of the control stations shown above allowing recall and programming or (reprogramming) of up to 16 circuits with eight scenes.

Non Programmable control stations



4 Button recall scene control you cannot programme or save scenes from this control station. It can only be used to recall existing lighting scenes. This control station is suitable to recall **4 scenes**.

RESX1



Single rotary switch By rotating the knob clockwise or anticlockwise the lighting levels are raised and lowered. By pushing the it the light switches off. By maintaining gentle pressure the light level will change. This switch will control a **single circuit of lighting**.

IDC



Using the IDC card in conjunction with a standard push to make retractive switch will **control a single circuit**



All Hamilton's control outstations are available on all our plate designs and finishes ensuring a complete match with our switches and sockets

Standard off the shelf combinations

Single Channel (circuit dimmers)

- 1 x 1.2KW
- 1 x 5KW

Multi Channel (circuit dimmers)

- 4 x 600watt
- 2 x 1200 watt
- 2 x 10amp volt free relay circuits
- 2 x DHF (regulated analogue High Frequency 1 – 10volt)

Bespoke design dimming cabinets

We are able to offer **any combination** of the above circuit boards built into a single enclosure with MCB or RCBO or RCD protection plus incoming isolator switches for SP & N or TP & N supplies. These cabinets are prewired and terminated for all incoming circuits and mains supplies. The cabinets are also fitted with the low voltage data control termination. Larger systems are fitted with thermostatically controlled forced air ventilation.

Light sources and Loads

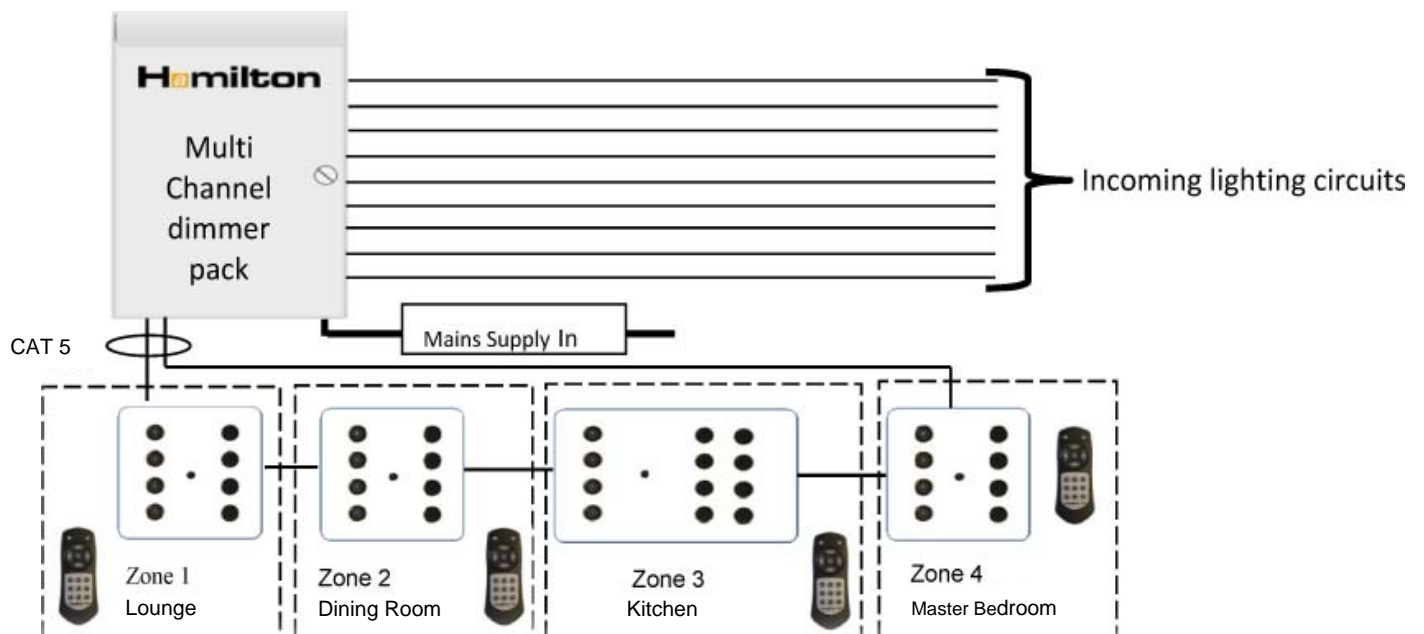
The Digital Mercury product is suitable for dimming the following light sources

- Incandescent
- Linear Halogen
- Mains voltage Halogen (GU10 etc)
- Low voltage halogen, using a suitable dimmable electronic **or** torodial transformer.
*Transformers are controlled on the primary side and **should be suitable for dimming with a Leading Edge technology dimmer.***
- 1-10volt regulated ballasts used for control of High frequency Fluorescent and cold cathode loads The same board can be used to control some 1 -10volt dimmable LED drivers
- Within the Digital Mercury Lighting Control System, provision can be made to have non dimmed circuits via the 10amp volt free relay option. This allows you to include any **non dimmed** light source as part of a lighting scene. We can also include other non dimmed functions such as curtains or security blinds

The system and control stations can also be set up as follows:

Basic commands such as zoning via dip switches on the control station

Example of Zoning



Example

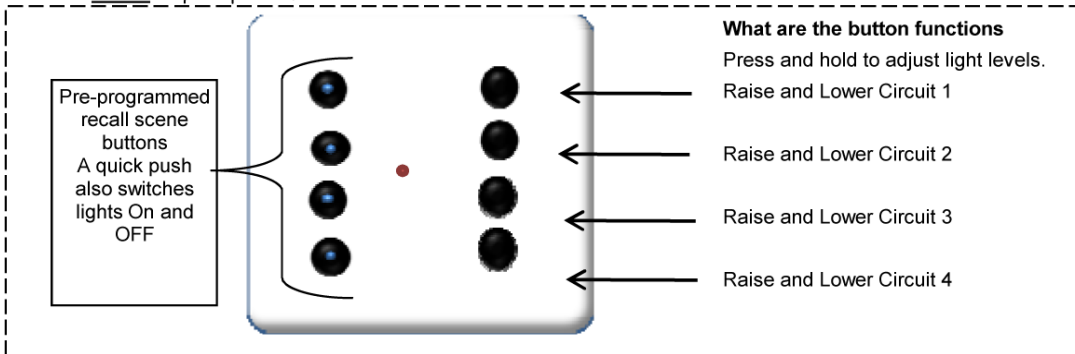
Zone 1 Lounge has 4 circuits **Zone 2** dining room has 4 circuits

Zone 3 kitchen has 8 circuits **Zone 4** master bedroom has 4 circuits

A single cat 5 data network cable can be installed. Each control station is set up via dip switches located on the back of the control to operate in its own assigned zone. If required you could also have a control in **zone 2** assigned to control some of the circuits in **zone 3**

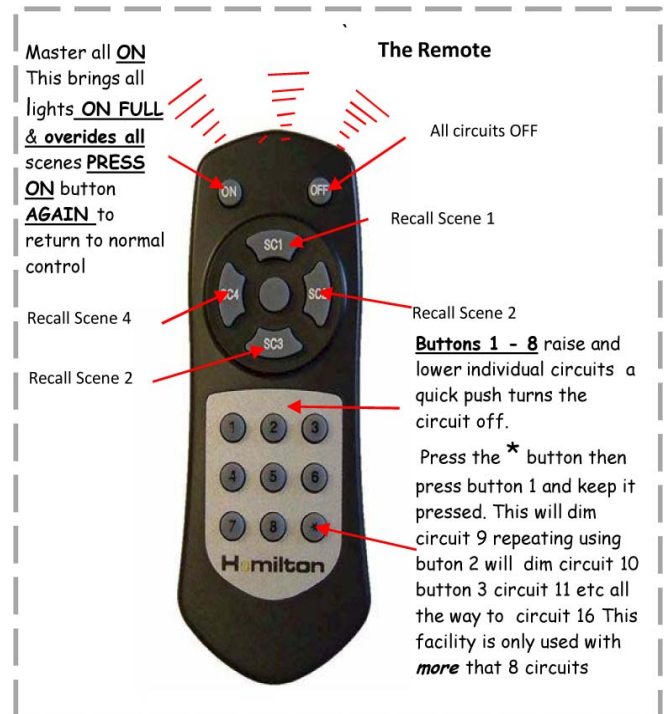
How to set up and store lighting Scenes from the control stations

NOTE A quick push of individual circuit button turns circuit ON or OFF



Scene Programming

To store a scene adjust individual channel levels using the channel buttons Press and hold scene button 1 for 3 seconds until LED stops flashing Old scene is shown then new scene is stored Repeat above to store further scenes on buttons 2,3 & 4



More advance settings on larger systems can all be programmed via a PC with our bespoke software.

Commissioning of larger systems is available on request

For further information on all products from R Hamilton & Co Ltd follow this link

www.hamilton-litestat.com



JPJune2010V2



BS EN ISO 9001-2008
CERT NO. FM11238