LEDsmart+ Digital Level Display

Suitable for use with all two-wire dimmers and some three-wire dimmers

www.diginet.net.au

Note: A dimmer is not included with this product. The above is for illustration purposes only

Range MMDM/DD

Overview

This device can be used in conjunction with a dimmer to display the current dimmed level via a circular array of 16 LED's. It fits into a standard Australian wall plate aperture and is compatible with all LEDsmart+™ dimmers and the Sitara™ Bluetooth Dimmer. It can be customised to display the current dimmed level with a choice of white, blue, green or orange indicators.

Features

Works in conjunction with 2-wire dimmers and some 3-wire dimmers

Optimal performance with Diginet dimmers

Connects in parallel with a dimmer

2-wire device – connects to Active and Load only, no Neutral connection required

Compatible with Diginet MultiMate enabled products, such as LEDsmart+ dimmers and Sitara Bluetooth Dimmers

Working conduction angle range 1ms to 8ms

Soft transition between adjacent indicator LED's

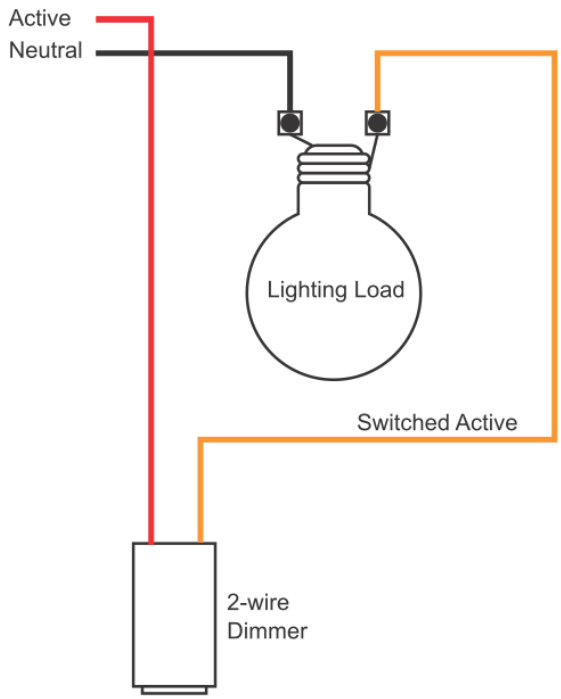
Includes alternative light pipes to change the LED indicator display colour from white to orange, green or blue

Plain white front face or alternative front face with light globe icon

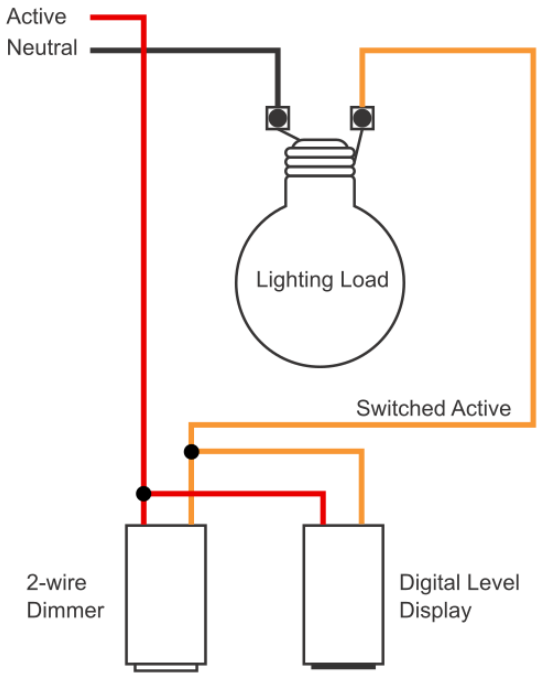
Fits standard Australian wall plate apertures

Wiring the Digital Level Display to a 2-wire dimmer

The Digital Level Display is wired in parallel with a 2-wire dimmer, between Active and Load, as shown in the diagram below.



2-wire dimmer without Digital Level Display Installed



2-wire dimmer with Digital Level Display Installed

Some 3rd party 2-wire dimmers limit the maximum conduction angle to below 8ms. This means that some 3rd party dimmers will not illuminate the upper-most LED(s), even when at maximum output.

Some 3rd party dimmers limit the minimum conduction angle. This may affect the ability of the Digital Level Display to illuminate the lower-most LED(s) at low dimming levels.

Diginet phase dimmers such as the LEDsmart MEDM, LEDsmart$^+$ MMDM/RT, LEDsmart$^+$ MMDM/PB and the Sitara STDM/BT are not affected by these issues.

The following issues are occasionally seen when LED/CFL lamps are used in conjunction with 2-wire dimmers and the Digital Level Display

- When switched off, the LED/CFL lights flicker, pulse on/off or do not switch off completely
- When switched off, the LEDsmart$^+$ dimmer LED indicators flicker
- When switching on, the LED/CFL lights have difficulty turning on and the dimmer indicators flicker or pulse

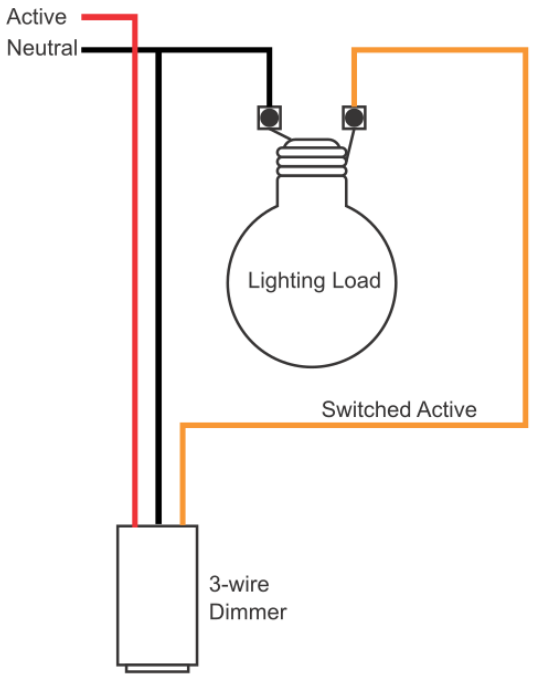
It is recommended to install a Diginet 'Load By-pass Device' (Diginet item number **MMBP**) across Load and Neutral terminals to provide improved performance of these lamps.

Wiring the Digital Level Display to a 3-wire dimmer

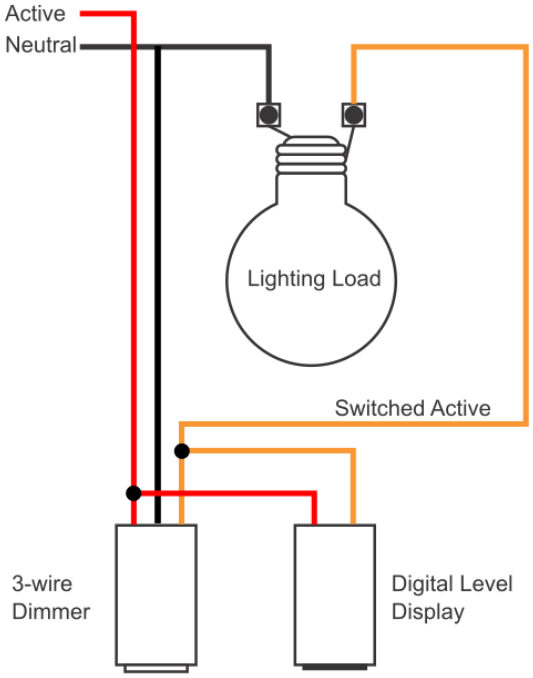
The Digital Level Display will not function with all 3-wire dimmer products.

Some 3-wire dimmers operate at full (10ms) conduction angle. The Digital Level Display is only suitable for dimmers with a maximum conduction angle of 8.5ms. Please check with the relevant 3-wire dimmer manufacturer to ensure compatibility.

The Digital Level Display is wired in parallel with a 3-wire dimmer, between Active and Load, as shown in the diagram below.



3-wire dimmer without Digital Level Display Installed



3-wire dimmer with Digital Level Display Installed

Replacement light pipes

To provide the user with an alternative LED colour indication, the clear light pipe pre-installed in the Digital Level Display can be replaced with an orange, green or blue light pipe. These are supplied as accessories in the product packaging.

If the Digital Level Display is connected between Neutral and Load instead of Active and Load, the display will illuminate in an anti-clockwise direction as the load is dimmed up.

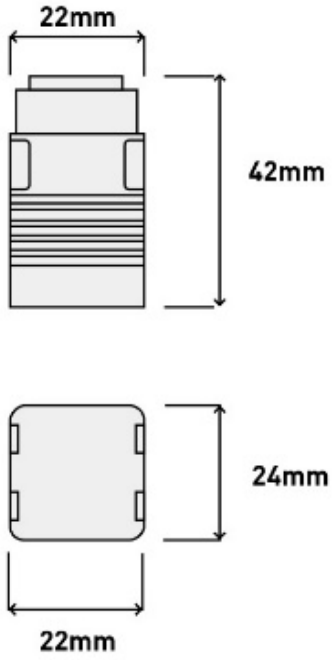
LEDsmart+ Digital Level Display

Suitable for use with all two-wire dimmers and some three-wire dimmers

Product specifications

Line Voltage / Frequency	220-240Vac/50Hz
Maximum Load	Independent of maximum dimmer load
Off-state leakage Current	3mA (non-separately switched dimmer application only)
Off-state Power Consumption	< 100mW (non-separately switched dimmer application only)
Dimmer working conduction angle display limits	Between 1ms and 8ms
Display resolution step size	Approximately 0.5ms per LED
Maximum Ambient Temperature	35°C
Operating Humidity	10% - 95% RH, non-condensing
Compatibility	2-wire dimmers and 3-wire dimmers with a maximum conduction angle of 8ms (Leading Edge, Trailing Edge and Universal Dimmers)
Number of LED's	16
LED Indicators	Off – no LED lit LED#1 lit – minimum level LED#8 lit – 50% level LED#16 lit – maximum level (Note: The display resolution has been designed for best compatibility with the range of Diginet phase-adaptive dimmers)
Compliance	RoHS COMPLIANT

Dimensions



Approvals & Compliance

IP20

CONTACT INFORMATION

Web	www.diginet.net.au	
General Enquiries:	1300 95 DALI (3254)	sales@diginet.net.au
Technical Services:	1300 95 3244	support@diginet.net.au
Fax:	1300 95 3257	

PRODUCT OF GERARD LIGHTING PTY LTD

ABN – 94 122 520 307
96-112 Gow Street
Padstow NSW 2211

DIGINET IS A BRAND OF GERARD LIGHTING GROUP

The product includes a **TWO-YEAR WARRANTY** against manufacturing defects. Fully warranty terms can be found here www.diginet.net.au