

ACHITECTURAL DIGITAL DIMMER

Digital Dimmer DSM Series is a development from The Diligent Digital Dimmer (DD-Series).

It's superior technology allows Digital lighting control and the ability to handle complex and large scale Projects.

DSM Series

Feature

1. Circuit controlled by Microcontroller.
2. Up to 32 program settings.
3. System is protected from excess power or short circuiting by MCB. under IEC/EN 60898 standards.
4. Voltage isolation between the control system and power system is ensured safety by the opto-isolator with AC. voltage tolerance valued at 7,500 volts.
5. RFI. Suppression noise protection system employing the Toroidal choke and the R-C Network. Meet with BS 800,VDE 0875 and CISPR 14 (EN55015), (EN55022), (EN50081) standards.
6. Heat ventilation using heat sink.
7. Solid State Thyristor phase power or relay control system.
8. Light dimming by the Square Law "B" Dimming Curve.
9. "E² PROM" data loss protection system (No need for battery back-up).
10. 40°C Maximum ambient temperature for 100% duty cycle.
11. Lamp indicator each channel.
12. Panic override function (By-Pass System).
13. Compatible with Incandescent, Halogen, Halogen low voltage, Fluorescent, LED and other.
14. Can be Programmed by front panel and Hand Held Programmable.
15. Programming plug-in front panel by RJ-45
16. Scene recall using by front panel and remote control.
17. Analog output 0-10 Vdc. each channel.
18. Load test with auto fade testing function.
19. Function Monitor : For easy viewing of lighting level of each channel
20. Independent setting for Dim or Non-Dim function.
21. Start Dimming can be set on a per-channel basis (0-100%).
22. Start Non-Dim can be set on a per-channel basis (0-100%).
23. Filament Preheat can be set on a per-channel basis (0-20%).
24. Output Limit can be set on a per-channel (0-100%) basis.
25. Fade time setting for scene change (0-60 Minutes)
26. Lock key function to prevent operation.
27. A choice of wall mounted and Cable Tray installations.
28. Compatible with control signal input at DMX-512 and Lunar protocol (RS-485)
29. Compatible with 1-Phase, 2 Wires 200-240 V.AC. 50Hz.
30. CE EMC Standard.



Technical Specification

Digital Dimmer Modules	DSM-14	DSM-24	DSM-52	DRM-24	DRM-52	DRB-02
Max.Load/Channel (kW.)	1 kW.	2 kW.	5 kW.	2 kW.	5 kW.	2 kW.
Max.Load/Channel (Amp.)	6A.	10A.	25A.	10A.	25A.	10A.
Supply Voltage	1-Phase, 2 Wires 200-240 V.AC.50 Hz.					
Load Type	Incandescent, Halogen, Halogen low voltage, Fluorescent, Cold Cathode and other					Motor
Dimmer Curve	Square Law "B" Dimming Curve			Relay		
Power Device	Solid State Thyristor phase power			Relay		
Phase Control	Forward Phase Control			Relay		
RFI Suppression	Toroidal Choke and R-C Network			-		
Short Circuit Protection	Miniature Circuit Breaker					
Ventillation	Heatsink					
Max.Ambient Temperature	40°C					
Input Control	DMX-512 and Lunar protocol (RS-485)					
Wiring Power Supply	1 Phase 2 Wires 200-240 V.AC. 50 Hz.THW. 4-10 mm ² Screw Terminal					
Wiring Load	2.5 mm ²	2.5 mm ²	4-6 mm ²	2.5 mm ²	4-6 mm ²	2.5 mm ²
Wiring Control Signal	UTP Cat-6 , RS-485 Cable 24 AWG 4C Shield					
Connectors Supply Input	Internal Interterminal Blocks					
Connectors Output	Internal Interterminal Blocks					
(Load) Connector						
RS-485 , DMX-512 Input-Output	Internal Terminal Blocks : Daisy Chain					
Analog Signal Output	0-10 Vdc.					-
Dimensions WxHxD (mm.)	177x400x107					
Weight Approx (kg.)	6	6	6	4	4	4
Weight Gross Approx (kg.)	6.3	6.3	6.3	4.3	4.3	4.3
Mounting	Wall Mounted and Rack Cabinet					

Model Information

DSM-14	Digital Dimmer 1 kW. x 4 Ch.
DSM-24	Digital Dimmer 2 kW. x 4 Ch.
DSM-52	Digital Dimmer 5 kW. x 2 Ch.
DRM-24	Digital Relay 10A. X 4 Ch.
DRM-52	Digital Relay 25A. X 2 Ch.
DRB-02	Digital Relay Box for Motor 2 Ch.