

LIGHTOLIER CONTROLS

MULTISET PRO PRE-WIRED DIMMING CABINET, ENCLOSURE, AND INTERIOR

Project: _____

Location/Type: _____

Description

MultiSet Pro is a revolutionary system of advanced digital wallbox dimmers for economical and flexible multi-scene, multi-channel control. MultiSet Pro provides flexible 13-scene preset dimming control of up to 30 devices as well as 12 adjustable fade rates up to one hour that are programmable by scene.

The MultiSet Pro Pre-Wired Dimmer Cabinet MDC20 facilitates design and installation by combining dimmers and controls into a common enclosure. Each cabinet is shipped assembled, pre-wired, and tested with its dimmers and/or master stations. The cabinet arrives at the job site ready to accept power and load wiring from the installer. This can significantly reduce installation time and potential wiring issues while providing a clean and consistent installation. For design flexibility, the cabinet accommodates several load types and device ratings. To best suit the application, the designer indicates where each device is located within the cabinet.

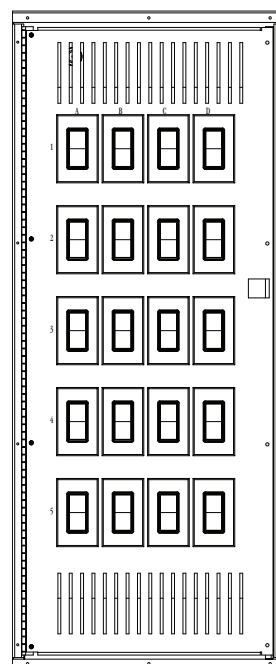
The enclosure is designed to hold up to (20) 1000 Watt MultiSet Pro dimmers and masters, which can be configured into one or more individual rooms. Higher wattage dimmers can be used, but the total quantity is lower. Blank plates are provided to cover all unused spaces. The dimmer cabinet is surface wall-mounted. All dimmers and components are serviceable or removable from the front of the cabinet. The cabinet features a double-hinged, lockable latching cover. The cover is made from heavy gauge steel, which prevents tampering of the devices. Entrance into the line voltage wiring section is from the double-hinged front cover of the cabinet. A separate neutral connection for each load is included in the cabinet. If normal power is lost, the dimmers will retain their presets and will return to their last state when power is restored.

Note : Each dimmer is fed from an individual circuit breaker. (See Typical Wiring Diagram.)

The MDC20 Cabinet is UL Listed to U.S. and Canadian safety standards, and features air vents to maintain proper air flow through the dimmers. The cabinet shall ensure satisfactory operation of the equipment within an ambient temperature range of 0° to 40° Celsius. (No cooling fans are used.)

For applications that require rough in prior to the dimmers being installed, order the MultiSet Pro Cabinet Enclosure (MDC20ENC) and Cabinet Interior (MDC20INT). See Page 3.

1. Cabinet Enclosure : The metal housing that the dimmers, terminal blocks, and doors mount to.
MDC20ENC
Use when rough in is required prior to dimmer(s) installation.
2. Cabinet Interior : Consists of terminal blocks, mounting back plane, dimmer(s) mounting panel, door and door frame.
MDC20INT



Note : Cabinet cover has a swinging radius of 21"

Applications

The MDC20 houses up to 20 MultiSet Pro dimmers and masters to control up to 20 incandescent, magnetic low-voltage, electronic low-voltage, 3-speed fan control, neon/cold cathode, general inductive, non-dim circuits, Lightolier Controls PowerSpec HDF fluorescent circuits, Advance Mark 10® fluorescent, or combinations thereof.

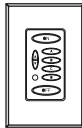
Maximum wattage capacity is 20 dimmers at 1000W each (total 20,000 watts) or 10 dimmers at 1920W each (total 19,200 watts). For higher capacity applications, several MultiSet Pro cabinets (MDC56, MDC20, MHPWDC20) may be wired together.

Note : A single MultiSet Pro System (purple wire network) can accommodate up to 30 MultiSet Pro dimmers and Masters.

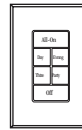
When the total number of MultiSet Pro devices exceed the 30-device limit, use the dimming cabinet to accommodate 2 or more [30 device] MultiSet Pro Dimming Systems.

Applications

- Select a dimmer to suit the wattage capacity:
Wattage Capacity = Number of lamps X Lamp wattage
(add 25% when using low-voltage fixtures)
- Select a dimmer suffix to suit the load type:
Dimmer Suffix
VA = Universal Inductive (Incandescent, Magnetic Low-Voltage)
QE = Quiet Electronic (Electronic Low-Voltage)
ND = Electronic Non-Dim Switch (on/off only)
WHIS = 3-Speed Whispurr Fan Control
HDF = Lightolier PowerSpec Dimming Ballast
EB = Advance Mark 10® Dimming Ballast
Each of the maximum 20 dimmer locations accommodate wattage ratings from 500-2000 watts. Unused locations have a removable cover plate.
When using 1500 or 2000 watt dimmers, each dimmer occupies two dimmer spaces within the cabinet.
- Select the desired master style and features:



Ellipse Style - Illuminated elliptical soft touch buttons.
6 Button : 5 Preset scenes + off, built in IR receiver, separate raise/lower buttons
8 Button: Use with the 6 button to extend number of scenes to 13.



Classic Style - Illuminated rectangular buttons.
Supplied with button ID labels.

6 Button: 5 Preset scenes + off, raise/lower function

8 Button: Use with the 6 button to extend number of scenes to 13.

A/V Masters: Use when scene selection from an external, normally open momentary contact closure is required. (Does not provide control of/to external A/V equipment.)

- Write the device type in each location as needed.
 - Up to two independent MultiSet Pro systems can be operated from one MDC20 cabinet.
 - The cabinet can be configured to control two rooms. Indicate which devices are in Room 1 & Room 2.
- Lightolier Controls installs and pre-wires all devices per your layout into the cabinet.
 - On the job site, the Electrical Contractor surface mounts the cabinet, terminates the power feeds, loads, and control wires to the cabinet.

Device Specifications

Voltage: Input: 108-132VAC, 60Hz, ± 3 Hz

Operating Temperature: 0°- 40° Celsius

Load: VA dimmers: Incandescent, low-voltage incandescent with magnetic transformers, neon, cold cathode, or general inductive loads. Neutral connection required.

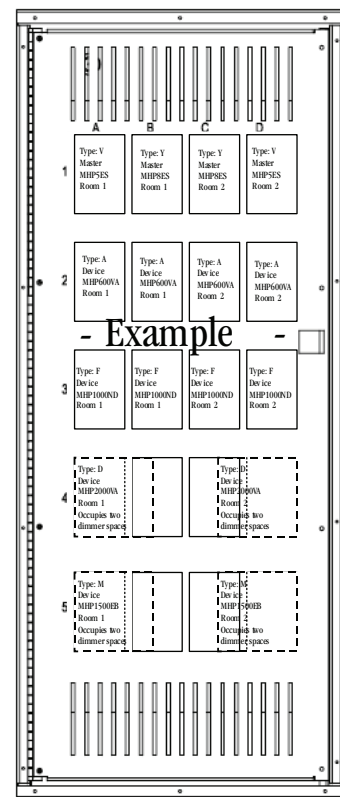
ND controls: Switched loads. Neutral connection required.

QE dimmers: Electronic low voltage and incandescent loads. Neutral connection required.

HDF dimmers: Lightolier Controls PowerSpec HDF Electronic Ballasts. Neutral connection required.

EB dimmers: Advance Mark 10® electronic ballasts. Neutral connection required.

Large devices, 1500W, 2000W, and MHP500QE require two openings each.



Ordering Information

Each MultiSet Pro Cabinet is pre-wired and built to order. Make sure that all information on this form is accurate before submitting your order/specification.

Please provide contact information:

- Load: Determine all load types and wattage.
Device: Select devices to handle the load type and wattage.
Master: Select the appropriate master controls - Each cabinet must have at least 1 master (up to 2 rooms can be configured).
Location: Determine where you want each device to be located (installed) into the cabinet. A spreadsheet is available from Lightolier Controls for assistance.
Hard Copy: Write in each device part number into each specific location.
- *This hard copy serves as the official build to order document* -
Sign Off: Have the customer sign off as approved.
Bill of Materials: List the dimmers and master as required. Add the MDC20.
Price: Per Lightolier Controls published pricing.
Purchase Order: The complete order consists of:
 A. PO# from the distributor - itemized Bill of Materials
 B. Correct pricing
 C. Completed Signed Order Form
Fax: Fax Complete form to Lightolier Controls at (508) 674-4710.

Contact Info:

Project Name: _____

Date: _____

Approved By (Print Name): _____

Signature: _____

Phone: _____ E-mail: _____

For Internal Use Only
(DO NOT MARK IN THIS AREA)

Technical Support

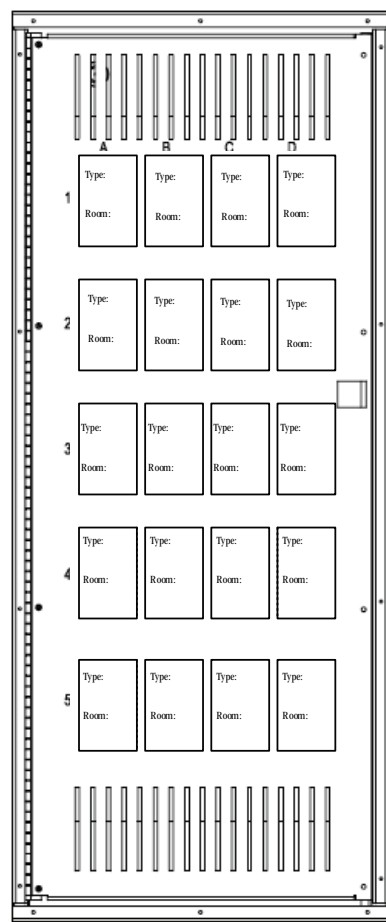
Customer Service

REG#: _____

P.O.#: _____

Quality Assurance

Note :
Large devices, 1500W,
2000W, and MHP500QE
require two openings each.



MULTISET PRO - MDC20

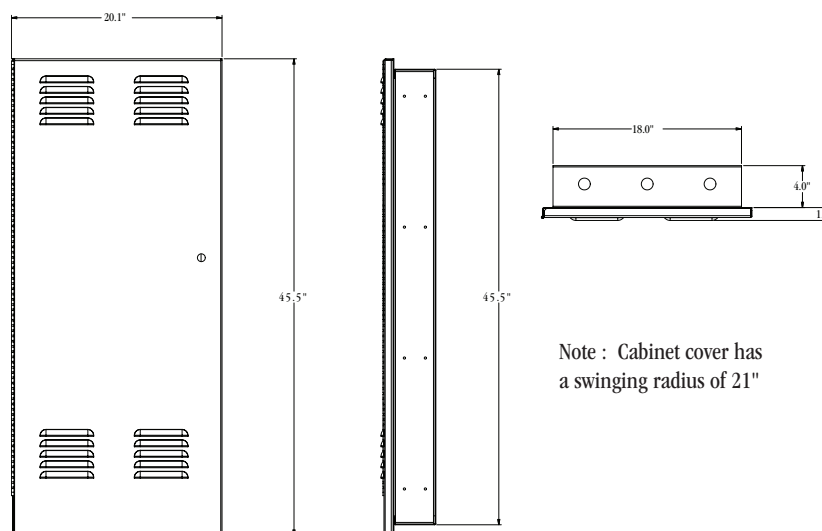
Product
Specifications

Specifications

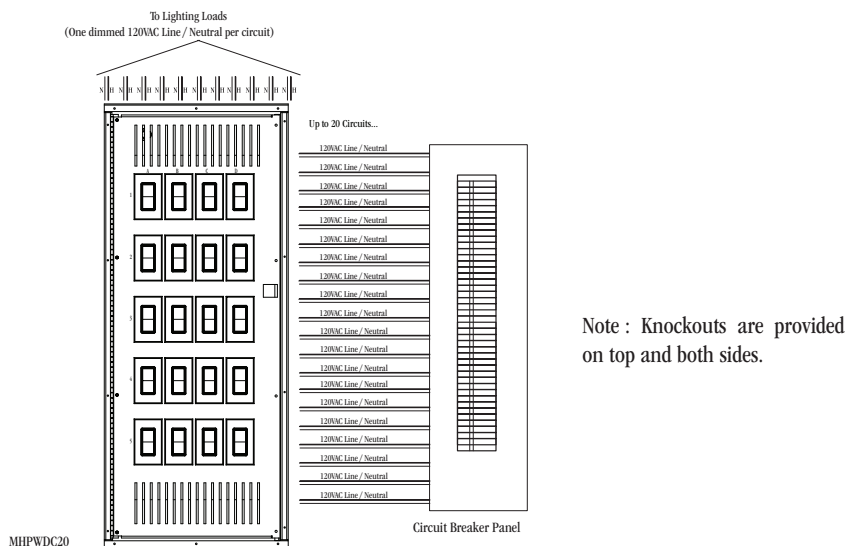
Input Voltage: 108-132VAC, 60Hz, ± 3 Hz
Operating Temperature: 0° - 40° Celsius
Weight: 80 lbs empty - 88 lbs with (20) 1000W dimmers
Dimensions: 45.5"(H) x 20.1"(W) x 5.5"(D)
Materials: White, 16 Gauge Steel
Enclosure: Double hinged cover / lockable latching cover



Dimensions



Typical Wiring Diagram



NOTICE: MultiSet Pro devices are not intended for use with Arc Fault Circuit Interrupter Breakers (AFCI).

We reserve the right to change details of design, materials and finish in any way that will not alter the installed appearance or reduce function performance.

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For technical/sales assistance, call: 1-800-526-2731
Made in U.S.A.
www.lightolier.com P/N 87-0573B