# **LUMISYS** Built for Integration

MAXIDM Lighting Relay Panel

## **Overview**

### Leverage the Power of BAS Integration

The MAXIOM Series UL Listed, Lighting Control Panel provides the capability to control high voltage lighting circuits via a two-wire RS-485 network, occupancy sensors, light level sensors, momentary override switches, and other input devices.

The standard Maxiom series panels have an extra capacity high-voltage compartment with ample space for the electrical contractor to add multi-pole contactors if desired. MAXIOM panels with "Tru-lock" feature cannot be opened without a key. Standard LTR relays have a manual override lever for operation of the relay without power to the electronics and each relay terminal block can accommodate up to size 8AWG load wires.

The standard MAXIOM panel sizes are based on relay capacity of 16, 32, and 48 relays. In addition, the MAXIOM "mini" panel has a capacity of only 8 relays and the MX60 extends the MX48's interior relays chassis into the extra capacity area effectively using the space for 60 LTR relays.



MAXIOM with LX5 technology integrates with most building automation systems; reducing frustration for the building engineer by eliminating the need to learn to operate and maintain a separate lighting control system. LX5 technology features native BACnet for MSTP and ARCnet, N2 direct, Apogee Open Processor direct, Lumisys, and Triatek Lighting open protocols. In addition, all MAXIOM panels have on-board DDN (Digital Device Network) communication to Digi-Touch addressable switches.



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Page 1 of 5

Data Sheet for MAXIOM Series MAXIOM\_PW\_DS.pdf

Exterior with Surface Mount Trim

LUMISYS

#### MAXIOM MX32





**Data Sheet** 

# **Specifications**

Native Communications Building Automation System	Dip switch selectable - BACnet MS/TP, N2, Lumisys Open, Triatek Legacy. Members of Lumisys' Partner Program may offer additional native communication options.			
Digi-Touch Subnet	Transient protected two-wire differential signaling on a daisy-chain topology network. Two wires for communication & two wires for power. Belden # 1502P or equivalent.			
Electrical Switch Inputs	Software configurable switch input types Momentary – two-wire ON / OFF alternating switch action Momentary ON – two-wire or three wire ON only Momentary OFF – three-wire OFF only Maintained – two-wire, open = OFF closed = ON State Change – two-wire ON / OFF alternating system action Jumper select for: dry contact or 12 to 24VDC external power.			
Analog Inputs	Six Analog Inputs (0-5 VDC) - typically used for Light Level Sensors (See Lumisys LS5 Sensors)			
Power Supply	Primary : 115/277 VAC, 30 VA, 60 Hz $\pm$ 10% (dual-tap) See Power Supply Wiring Secondary : 24VAC minimum $\pm$ 10%			
Relay Type	SPST latching with manual override lever, UL Recognized Component			
Relay Rating	Tungsten 20 amp @ 277 VAC Ballast 20 amp @ 277 VAC Ballast 20 amp @ 347 VAC Resistive 20 amp @ 277 VAC Resistive 20 amp @ 347 VAC			
Relay Terminals	Each slotted screw box clamp terminal accepts #14 - #8 AWG or two #10 AWG. Solid or stranded wire, copper only			
Relay Drive Signal	Staggered, energize pulse			
S.C.C.R. Environmental	Short Circuit Current Rating - 20KA @277V			
Operating Temperature	32° to 125° F (0° to 50° C)			
Operating Humidity	20% - 95%RH, non-condensing			
System Certification	Electronics meet or exceed IEC Level 3 standards: Radiated Emissions, IEC 55022, Class A Conducted Emissions, IEC 55022, Class A Quasi-Stationary Current Harmonics, IEC 6100-3-2 Voltage Fluctuation and Flicker, IEC 6100-3-2 Electrostatic Discharge, IEC 6100-4-2 Electrical Fast Transient/Burst, IEC 6100-4-4 Surge Immunity, IEC 6100-4-5 Immunity to Conducted Disturbance, IEC 6100-4-6 Immunity to Voltage Dips, Short Interruptions, Voltage Variations, IEC 6100-4-11 Electromagnetic Compatibility Generic Immunity Standard. Part 1, IEC 6100-6-1 ISO 9001 RoHS Compliant			
	Regulatory – Electronic assemblies shall meet or exceed standards Underwriters Laboratories UL 916, Standard for Energy Management Equipment FCC, Part 15, Class A Radiated Emissions FCC, Part 15, Class A Conducted Emissions CEC Title 24			
Mechanical Enclosure Type	NEMA 1			

	MX08	MX16	MX32	MX48	MX60
Panel	IVIAUO		IVIAJZ	111740	INIXOU
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Dimensions (Width x Height x Depth)	13" x 16" x 4"	18" x 25" x 5 3/4"	18" x 33 3/4" x 5 3/4"	18" x 42 1/2" x 5 3/4"	18" x 42 1/2" x 5 3/4"
Contactor Mounting Space	N/A	8.0" x 8.0" x 5.0"	8.0" x 8.0" x 5.0"	8.0" x 8.0" x 5.0"	N/A
Trim Style	Screw on	Tru-lock	Tru-lock	Tru-lock	Tru-lock
Controller	Lx5	Lx5	Lx5	Lx5	Lx5
Flash Upgrade	Yes	Yes	Yes	Yes	Yes
Approximate Shipping Weight	20lbs	31lbs	44lbs	58lbs	70lbs
Native Protocols Selectable via Dip Switch					
BACnet MS/TP	Yes	Yes	Yes	Yes	Yes
N2 Open	Yes	Yes	Yes	Yes	Yes
Lumisys Open	Yes	Yes	Yes	Yes	Yes
TRIATEK legacy	Yes	Yes	Yes	Yes	Yes
Other Protocol Options					
Lumisys' Partners offer additional native communication options	Yes, varies by partner				
Inputs Digital Subnet for Switches and Occupancy Sensors	Digi-Touch Native	Digi-Touch Native	Digi-Touch Native	Digi-Touch Native	Digi-Touch Na- tive
Binary inputs available without option card	24	24	56	88	120
Analog Inputs available without option card	6	6	6	6	6
Optional Telephone Override Card	No	Yes	Yes	Yes	Yes
Outputs					
Relay Panel Capacity	8	16	32	48	60
Latching Relay with manual override on relay	Yes, Lumisys True Relay (LTR)				

Warranty

24 months from date of shipment.

Refer to Lumisys Terms and Conditions of Sale for additional details.

# **Ordering Information**

Ordering an M Catalog #	X08 Description		
MX <b>08PXX</b>	MAXIOM Series MX08 Lighting Control Panel - Factory assembled <b>Number of Factory Installed Relays</b> : Limited to relay capacity (8). 1 to 8 available.		
Ordering an M	X16, MX32, MX48 or MX60		
Catalog #	Description		
MXXXIXX	Interior for MAXIOM Series Lighting Control Panel ————I Number of Factory Installed Relays: Limited to Relay Capacity Selection below ————I Relay Capacity Selection Options: 16, 32, 48 or 60 Relay Capacity		
MXXXE	Enclosure for MAXIOM Series Lighting Control Panel Relay Capacity Selection Options: 16, 32, 48 or 60 Relay Capacity		
MXXXTS	Surface Mount Trim with Key Lock Trim Size Selection options: 16, 32, 48 or 60 (relates to relay capacity)		

# **NOTES**

The Relay Capacity selection for Interior, Enclosure and Trim need to match or the panel will not fit together properly. A correctly ordered MX16, MX32, MX48 or MX60 product will have all three components: Interior, Enclosure and Trim Example:

Quantity	Part#	Description
1	MX32127	MAXIOM Interior with 32 relay capacity and 27 relays factory installed
1	MX32E	MAXIOM Enclosure with 32 relay capacity
1	MX32TS	MAXIOM Surface mount trim for with 32 relay capacity enclosure

# **Power Supply Wiring**



