

Maximal Series

Dual P/S Access Power Controllers (PTC)

Description

Maximal Access Power/Controllers distribute and switch power to access control systems and accessories. They convert a 115VAC, 60Hz input into sixteen (16) independently controlled 12VDC or 24VDC Class 2 Rated PTC protected power-limited outputs. The outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Keypad, Push Button, REX PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. The FACP Interface enables Emergency Egress, Alarm Monitoring, or may be used to trigger other auxiliary devices. The fire alarm disconnect feature is individually selectable for any or all of the sixteen (16) outputs.



Maximal75D

Key Features

- Sixteen (16) independently controlled Fail-Safe and/or Fail-Secure power outputs.
- Sixteen (16) auxiliary power outputs (unswitched).
- Output PTCs are rated @ 2.5A.
- Filtered and electronically regulated outputs.
- Supervision:
 - AC Fail.
 - Battery Fail and Battery Presence.
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the sixteen (16) outputs.
- Alarm output relay indicates that FACP input is triggered.
- Fire Alarm disconnect input options:
 - a) Normally open (NO) or normally closed (NC) dry contact input
 - b) Polarity reversal input from FACP signaling circuit.
- Built-in charger for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- UL Listed in the U.S. and Canada.
- Lifetime Warranty / Made in the U.S.A.

Maximal Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	Output Voltage Options		Total Output Current (16 outputs)	Class 2 Rated PTC Protected Power-Limited Outputs	115VAC, 60 Hz Input (current)	Current per ACM8CB output	Power Supply Board Input Fuse Rating	Power Supply Board Output Fuse Rating
	Power Supply 1	Power Supply 2						
Maximal11D	AL400ULXB2	AL400ULXB2		16	7A	2.0A	5A/250V	15A/32V
	12VDC @ 3.5A	12VDC @ 3.5A	7A					
	12VDC @ 2.7A	24VDC @ 2.7A	5.4A					
Maximal33D	AL600ULXB	AL600ULXB			7A	2.0A	5A/250V	-
	12VDC @ 5.5A	12VDC @ 5.5A	11A					
	12VDC @ 5.7A	24VDC @ 5.7A	11.4A					
Maximal55D	AL1012ULXB	AL1012ULXB	19		5.2A	2.0A	5A/250V	15A/32V
	12VDC @ 9.5A	12VDC @ 9.5A	11.2A					
Maximal75D	AL1012ULXB	AL1024ULXB2	19.2		7A	2.0A	5A/250V 6.3A/250V	15A/32V
	12VDC @ 9.5A	24VDC @ 9.5A	19.4					
Maximal77D	AL1024ULXB2	AL1024ULXB2	19.4	8.8A	2.0A	6.3A/250V		
	24VDC @ 9.7A	24VDC @ 9.7A						



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Specifications

Input

Voltage 115VAC, 60Hz
 Fusing Varies, See Reference Chart.

Outputs

Sixteen (16) Class 2 Rated PTC protected power-limited outputs (auto-resettable).
 Voltage 12VDC or 24VDC, see Reference Chart.
 Current Varies, See Reference Chart.
 Protection PTC 2.5A.
 Auxiliary 2A (unswitched).
 Other Overvoltage protection.
 Filtered and regulated outputs.

Back-up Battery *(not included)*

Capacity 12AH / 12VDC (up to 4 within enclosure).
 40 AH / 65 AH (requires separate enclosure).
 Type Sealed lead acid or gel type.
 Fuse Rating 15A @ 32VDC
 Maximal33D does not have a battery fuse.
 Failover Upon AC loss, instantaneous.

Fire Alarm Disconnect

Supervised Latching or non-latching, individually selectable for any or all of the sixteen (16) outputs.
 EOL 10K Resistor

Supervision

AC Failure Form "C" contacts.
 Battery Form "C" contacts.

Indicators (LED)

Input 115VAC is present.
 DC Output Powered.
 Battery Discharged or not connected.
 Relays Individual LEDs indicate outputs are triggered (relays energized).
 FACP Indicates FACP disconnect is triggered.

Agency Listings

Access Control UL294
 Signal Equipment CSA Standard C22.2 No.205-M1983
 California State Fire Marshall Approved

Physical and Environmental

Dimensions (H x W x D)
 26" x 19" x 6.25" (660.4mm x 482.6mm x 158.8mm).
 Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal11D	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal33D	43.5 lbs. (19.73 kg)	47.5 lbs. (21.55 kg)
Maximal55D	43 lbs. (19.5 kg)	47 lbs. (21.32 kg)
Maximal75D	43.7 lbs. (19.82 kg)	47.7 lbs. (21.64 kg)
Maximal77D	43.3 lbs. (19.64 kg)	47.3 lbs. (21.45 kg)

Temperature

Operating 0°C to 49°C (32°F to 120°F).
 Storage -20°C to 70°C (-4°F to 158°F).
 Relative Humidity 85% +/-5%.

BTU/Hr. (approx.):

Model	12VDC	24VDC	12VDC and 24VDC
Maximal11D	43	66	55
Maximal33D	68	140	104
Maximal55D	117	N/A	N/A
Maximal75D	N/A	N/A	177
Maximal77D	N/A	238	N/A