

Maximal Series

Single P/S Access Power Controllers (fused)

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 fuse protected outputs. These Fail-Safe/Fail-Secure power outputs may be converted to dry form "C" contacts. 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.



Maximal5

Key Features

- Sixteen (16) independently controlled outputs.
 - Output options:
 - a) Sixteen (16) Fail-Safe and/or Fail-Secure power outputs.
 - b) Sixteen (16) form "C" 5A rated relay outputs.
 - c) Any combination of the above.
- Sixteen (16) auxiliary power outputs (unswitched).
- Output fuses are rated @ 3.5A.
- 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 Single Power Supply Series Configuration Reference Chart

Altronix Model Number	Power Supply Board Output Voltage Options	Fuse Protected Non Power-Limited Outputs	Maximum Current Per ACM8 Output	115VAC 60Hz Input (current draw)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating
Maximal3	12VDC @ 5A or 24VDC @ 5.4A	16	2.5A	3.5A	5A/250V	—
Maximal5	12VDC @ 9A			2.6A		15A/32V
Maximal7	24VDC @ 9.4A			4.4A		6.3A/250V

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Specifications

Input

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

Outputs

Voltage	12VDC or 24VDC, see Reference Chart.
Current	Varies, See Reference Chart.
Protection	Fused 3.5A.
Auxiliary	2.5A (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 Maximal3 does not have a battery fuse.
Failover	Upon AC loss, instantaneous.

Fire Alarm Disconnect

Latching or non-latching, individually selectable for any or all of the sixteen (16) outputs.

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

UL:	
UL294	Access Control System Units.
cUL:	
C22.2 No.205-M1983	General Signaling Equipment;
CSFM	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 158.75mm).

Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal3	30.8 lb. (14.0 kg)	37.8 lb. (17.2 kg)
Maximal5	31.8 lb. (14.4 kg)	38.85 lb. (17.6 kg)
Maximal7	32.25 lb. (14.6 kg)	39.25 lb. (17.8 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
Maximal3	31	67
Maximal5	55	N/A
Maximal7	N/A	115