A1 SECURITY CAMERAS
The First Name in Security

MAXIMAL®

Altronix®

Maximal Series
Single P/S Access Power Controllers (fused)

Maximal5

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.

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	15A/32V

Rev. Maximal SingleP/S-01302018

Available from A1 Security Cameras
www.a1securitycameras.com email: sales@a1securitycameras.com

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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: 0ºC to 49ºC (32ºF to 120ºF).
  - Storage: -20ºC to 70ºC (-4ºF to 158ºF).
- Relative Humidity: 85% +/-5%.
- BTU/Hr. (approx.):

Model	12VDC	24VDC
Maximal3	31	67
Maximal5	55	N/A
Maximal7	N/A	115

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