

## Maximal Series

### Single 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 PTC protected 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.



#### Key Features

- Sixteen (16) independently controlled (16) 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 Single Power Supply Series Configuration Reference Chart

| Altronix Model Number | Power Supply Board Output Voltage Options | PTC Protected Power-Limited Outputs | Maximum Current Per ACM8CB Output | 115VAC 60Hz Input (current draw) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating |
|-----------------------|---|-------------------------------------|-----------------------------------|----------------------------------|--------------------------------------|--|
| Maximal3D             | 12VDC @ 5A<br>or 24VDC @ 5.4A             | 16                                  | 2.0A                              | 3.5A                             | 5A/250V                              | —                                      |
| Maximal5D             | 12VDC @ 9A                                |                                     |                                   | 2.6A                             |                                      | 15A/32V                                |
| Maximal7D             | 24VDC @ 9.4A                              |                                     |                                   | 4.4A                             |                                      | 15A/32V                                |

**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 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  
 Maximal3D 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**

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 158.75mm).  
 Weight (approx.)

| Model     | Product Weight      | Shipping Weight     |
|-----------|---------------------|---------------------|
| Maximal3D | 30.8 lb. (14.0 kg)  | 37.8 lb. (17.2 kg)  |
| Maximal5D | 31.8 lb. (14.4 kg)  | 38.85 lb. (17.6 kg) |
| Maximal7D | 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 |
|-----------|-------|-------|
| Maximal3D | 31    | 67    |
| Maximal5D | 55    | N/A   |
| Maximal7D | N/A   | 115   |