

Maximal FD Series

Single Power Supply Access Power Controllers (PTC)

Altronix Maximal FD Series Access Power Controllers distribute and switch power to access control systems and accessories. They convert a 120VAC, 60Hz input into sixteen (16) independently controlled 12VDC or 24VDC Class 2 Rated PTC protected power-limited auto-resettable 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 Fail-Safe and/or Fail-Secure Class 2 Rated PTC protected power-limited 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
 - Low power shutdown
- 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
- CE European Conformity
- Lifetime Warranty

Accessories (order separately)



LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email

Lifetime Warranty

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Maximal FD Single Power Supply Series Configuration Reference Chart

| Altronix Model Number | 120VAC 60Hz Input Current Draw (A) | Power Supply Board Input Fuse Rating | Power Supply Board Battery Fuse Rating | Nominal DC Output Voltage | | | | Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM8CB Access Power Controller's outputs (A) | Class 2 Rated PTC Protected Power-Limited Outputs (auto-resettable) | Current Per ACM8CB Output (A) | ACM8CB Board Input Fuse Rating | ACM8CB Board Output PTC Rating |
|-----------------------|------------------------------------|--------------------------------------|--|---------------------------|------------------------|------------------------|------------------------|---|---|-------------------------------|--------------------------------|--------------------------------|
| | | | | [DC] | | [Aux] | | | | | | |
| | | | | 12VDC Output Range (V) | 24VDC Output Range (V) | 12VDC Output Range (V) | 24VDC Output Range (V) | | | | | |
| Maximal3FD | 3.5 | 5A/250V | 10A/32V | 10.0-13.2 | 20.19-26.4 | 10.03-13.2 | 20.19-26.4 | 12VDC @ 4.6A or 24VDC @ 5.2A | 16 | 2.5 | 10A/250V | 2.5A |
| Maximal5FD | 3.5 | 5A/250V | 15A/32V | 10.03-13.2 | - | 10.03-13.2 | - | 8.6A | | 2.5 | 10A/250V | 2.5A |
| Maximal7FD | 4.5 | 6.3A/250V | 15A/32V | - | 20.17-26.4 | - | 20.28-26.4 | 9.2A | | 2.5 | 10A/250V | 2.5A |

Lifetime Warranty

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Specifications

Input

Voltage 120VAC, 60Hz
Input Fuse Varies, see Reference Chart

Outputs

Class 2 Rated power-limited PTC Protected Outputs (auto-resettable)
Voltage 12VDC or 24VDC, see Reference Chart
Current Varies, see Reference Chart
Output PTCs 2.5A
Auxiliary 3.5A (unswitched)
Other Overvoltage protection
Filtered and regulated outputs

Battery Charging

Capacity 12AH/12VDC (4 within enclosure)
40AH/65AH (requires separate enclosure)
Type Sealed lead acid or gel type
Fuse Rating Varies, see Reference Chart
Failover Upon AC loss, instantaneous
Batteries are sold separately

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

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply)
Prevents deep battery discharge

Indicators (LED)

Input 120VAC is present
DC Output Powered
Relays Individual LEDs indicate outputs are triggered (relays energized)
FACP Indicates FACP disconnect is triggered

Agency Listings

UL:
UL294 Access Control System Units
cUL:
ULC-S319-05 Electronic Access Control Systems
Class I equipment
CSA C22.2 No.205 Signal Equipment
CSFM California State Fire Marshall Approved
CE European Conformity

Physical and Environmental

Dimensions (H x W x D)

Enclosure:
26" x 19" x 6.25" (660.4mm x 482.6mm x 158.8mm)
Shipping:
31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)
Enclosure accommodates up to four (4) 12VDC/12AH batteries

Weight (approx.)

| Model | Product Weight | Shipping Weight |
|------------|--------------------|--------------------|
| Maximal3FD | 31.8 lb. (14.4 kg) | 38.8 lb. (17.6 kg) |
| Maximal5FD | 31.9 lb. (14.5 kg) | 38.9 lb. (17.6 kg) |
| Maximal7FD | 32.0 lb. (14.6 kg) | 39.0 lb. (17.7 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 |
|------------|-------|-------|
| Maximal3FD | 28 | 64 |
| Maximal5FD | 53 | N/A |
| Maximal7FD | N/A | 113 |

Lifetime Warranty

