

## MaximalFD Series Dual P/S Access Power Controllers (PTC)

### Description

MaximalFD 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 PTC protected outputs. Outputs are activated by an open collector sink or normally open (NO) dry trigger input from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. Units will route power to a variety of access control hardware devices including: Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. 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.



Maximal33FD

### 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
  - 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 Approved.
- Lifetime Warranty / Made in the U.S.A.

### MaximalFD Dual Power Supply Series Configuration Reference Chart

Altronix Model Number	DC Output Voltage Options								Maximum Supply Current for Main and Aux. Outputs (P/S 1 / P/S 2)	PTC Protected Outputs (auto-resettable)	120VAC 60Hz Input Current	Current per ACM8CB Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	ACM8CB Board Input Fuse Rating
	Power Supply 1				Power Supply 2										
	[DC]		[AUX]		[DC]		[AUX]								
	12 VDC	24 VDC	12 VDC	24 VDC	12 VDC	24 VDC	12 VDC	24 VDC							
Maximal11FD	eFlow4NB				eFlow4NB				–	16	7A	2.5	5A/ 250V	7.5A/ 32V	10A/ 250V
	✓	–	✓	–	✓	–	✓	–	3.3A + 3.3A						
	✓	–	✓	–	–	✓	–	✓	3.3A + 3.6A						
	–	✓	–	✓	–	✓	–	✓	3.6A + 3.6A						
Maximal33FD	eFlow6NB				eFlow6NB				–		7A	2.5	5A/ 250V	10A/ 32V	10A/ 250V
	✓	–	✓	–	✓	–	✓	–	5.3A + 5.3A						
	✓	–	✓	–	–	✓	–	✓	5.3A + 5.6A						
	–	✓	–	✓	–	✓	–	✓	5.6A + 5.6A						
Maximal55FD	eFlow102NB				eFlow102NB				9.3A + 9.3A		7A	2.5	5A/ 250V	15A/ 32V	10A/ 250V
	✓	–	✓	–	✓	–	✓	–							
Maximal75FD	eFlow102NB				eFlow104NB				9.3A + 9.6A		8A	2.5	5A/250V 6.3A/250V	15A/ 32V	10A/ 250V
	✓	–	✓	–	–	✓	–	✓							
Maximal77FD	eFlow104NB				eFlow104NB				9.6A + 9.6A		9A	2.5	6.3A/250V	15A/ 32V	10A/ 250V
	–	✓	–	✓	–	✓	–	✓							

# MaximalFD Series

## Dual P/S Access Power Controllers (PTC)



### Specifications

#### Input

Voltage	120VAC, 60Hz.
Fusing	Varies, see Reference Chart.

#### Outputs

Voltage	12VDC or 24VDC, see Reference Chart.
Current	Varies, see Reference Chart.
Protection	PTC 2.5A.
Auxiliary	3.5A (unswitched).
Other	Overvoltage protection. Filtered and regulated outputs.

#### Back-up Battery *(not included)*

Capacity	12AH/12VDC (up to 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.

#### 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.
Battery	Discharged or not connected.

#### Indicators (LED) *(cont'd)*

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)

26" x 19" x 6.25" (660.4mm x 482.6mm x 158.75mm).

##### Weight (approx.)

Model	Product Weight	Shipping Weight
Maximal11FD	32.4 lb. (14.7 kg)	39.4 lb. (17.9 kg)
Maximal33FD	32.6 lb. (14.8 kg)	39.6 lb. (18 kg)
Maximal55FD	32.5 lb. (14.75 kg)	39.5 lb. (17.9 kg)
Maximal75FD	32.6 lb. (14.8 kg))	39.6 lb. (18 kg)
Maximal77FD	32.8 lb. (14.9 kg)	39.8 lb. (18.1 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	12 and 24VDC
Maximal11FD	41	88	65
Maximal33FD	65	138	101
Maximal55FD	114	N/A	N/A
Maximal75FD	N/A	N/A	177
Maximal77FD	N/A	236	N/A

### Accessories

#### Network Supervision

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

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Email and SNMP trap message notifications

