

## AL1024NKA8D

### Dual Voltage Access Power Controller with Power Supply/Charger

Ordering# AL1024NKA8D

Kit Contents: AL1024JULX with VR6 and ACMS8CB UL Listed Sub-Assemblies

Altronix AL1024NKA8D sub-assembly kit converts a 115VAC 60Hz input into eight (8) PTC protected outputs. Outputs are individually selectable, providing 12VDC or 5VDC up to 6A and/or 24VDC up to 10A (240W total power) for access control panels, door locks, and ancillary devices. Power outputs can be converted to dry form "C" contacts. Outputs are activated by an open collector sink, normally open (NO), normally closed (NC) dry trigger input, or wet output from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. AL1024NKA8D 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 eight (8) outputs. The spade connectors allow you to daisy chain power to multiple ACMS8(CB) modules. This feature allows you to distribute the power over more outputs for larger systems.



AL1024NKA8D

#### Key Features

- Unit provides 12VDC or 5VDC up to 6A and/or 24VDC up to 10A (240W total power)
- Short circuit and overvoltage protection
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- Bi-colored LEDs provide visual verification of voltage on each output
- Stackable sub-assemblies save valuable space
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- Eight (8) independently controlled outputs
- Eight (8) auxiliary power outputs (unswitched).
- Filtered and electronically regulated outputs
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the eight (8) outputs
- Kit contents are UL Listed sub-assemblies
- CE European Conformity

#### Lifetime Warranty



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## Specifications

### Power Supply (AL1024ULXB2):

#### Input

Voltage 115VAC 60Hz, 4.2A max  
Fusing 5A/250V

#### Outputs

Voltage 24VDC  
Current 10A @ 24VDC continuous max.  
Other Overvoltage protection. Filtered and regulated

### Battery Charging

Capacity 12AH/12VDC (2 within enclosure)  
40AH/65AH (requires separate enclosure)  
Type Sealed lead acid or gel type  
Failover Upon AC loss, instantaneous  
Batteries are sold separately

### Supervision

AC Failure Form "C" contacts  
Battery Form "C" contacts

### Indicators (LED)

Input 115VAC is present  
DC Output Powered  
Battery Discharged or not connected

### Dual Input Access Power Controller (ACMS8CB):

#### Input

Voltage 24VDC from AL1024ULXB2 and  
12VDC from VR6  
Input PTCs 9A

#### Outputs

Voltage 12 or 24VDC individually selectable  
Eight (8) selectable 12VDC or 24VDC independently  
controlled outputs or eight (8) independently controlled  
Form "C" relay outputs:  
a) Fail-Safe and/or Fail-Secure power outputs  
b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated  
c) Auxiliary power outputs (unswitched)  
d) Any combination of the above  
Any of the eight (8) PTC protected power outputs are  
selectable to follow power Input 1 or Input 2  
Individual outputs may be set to OFF position for servicing

Output PTCs 2.5A

### Indicators (LED)

Red LEDs Outputs are triggered  
(relays energized)  
Blue LED FACP disconnect is triggered  
Out1 - Out8 Bi-colored LEDs indicate 12 or 24VDC

### Voltage Regulator (VR6):

#### Input

Voltage 24VDC from AL1024ULXB2

#### Output

Voltage 12VDC  
Current 6A continuous  
Other Surge suppression

### Indicators (LED)

Input 24VDC is present  
Output Powered

### Agency Listings

#### AL1024ULXB2

Access Control UL294  
Burglar Alarm UL603  
Fire Alarm UL1481  
Signal Equipment CSA C22.2 No.205-M1983

#### VR6

Access Control UL294, ULC-S319  
CE European Conformity

#### ACMS8

Access Control UL294, ULC-S319  
CE European Conformity

### Physical and Environmental

#### Dimensions (H x W x D)

Enclosure: 15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm)  
Shipping: 16.5" x 13.5" x 6" (419.1mm x 342.9mm x 152.5mm)

Enclosure accommodates up to two (2) 12VDC/12AH batteries

#### Weight (approx.)

Product: 9.4 lb. (4.26 kg)  
Shipping: 10.5 lb. (4.76 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.)

123 BTU/Hr.

### Lifetime Warranty

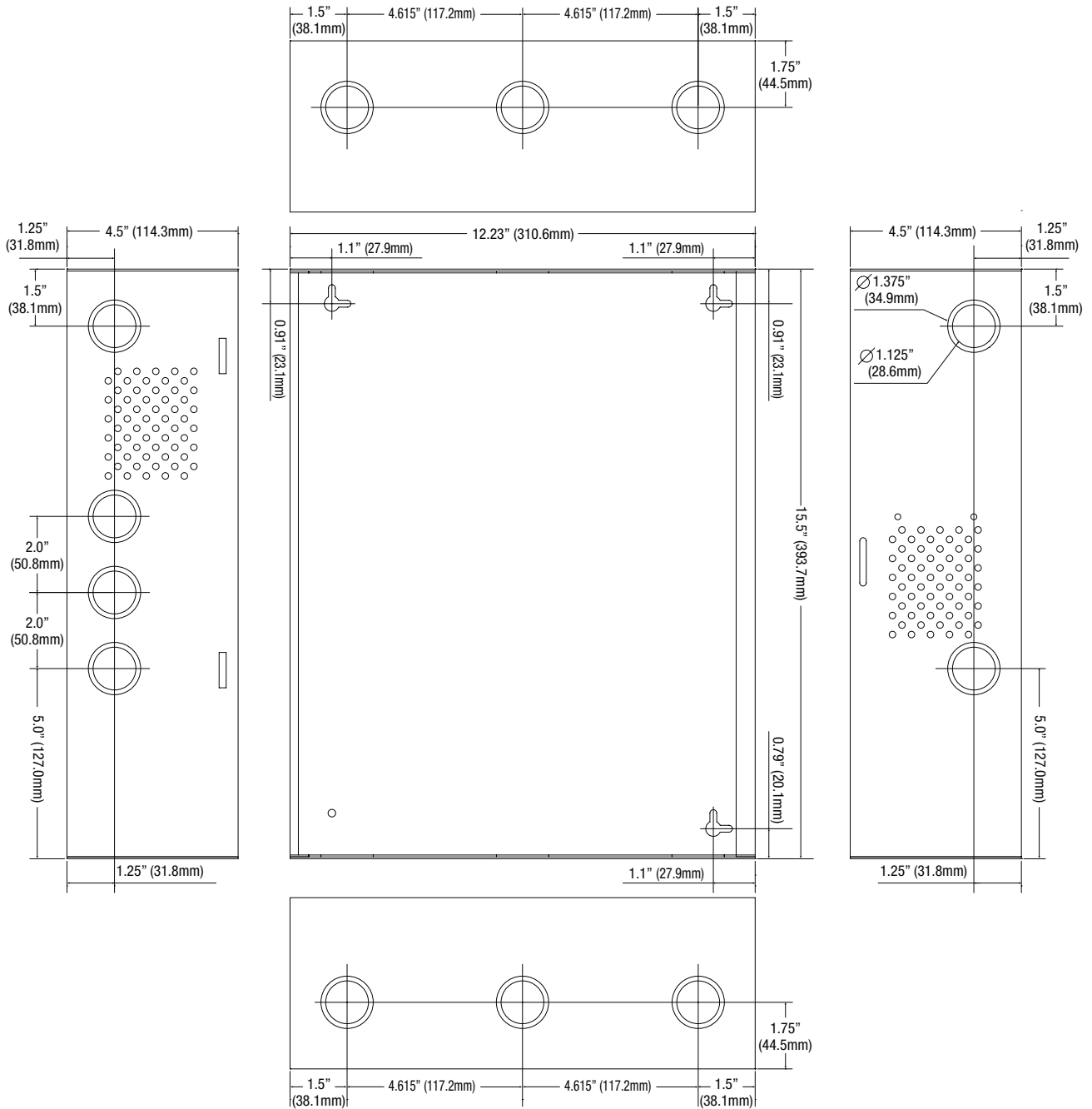
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## Dimensions and Drawing

Dimensions (H x W x D approximate)

15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm)



### Lifetime Warranty

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