Altronix®

Rev. 06292023

# AL1024NKA8D

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

Ordering# AL1024NKA8D
Kit Contents: AL1024ULX with VR6 and ACMS8CB UL Listed Sub-Assemblies

AL1024NKA8D

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.

## Key Features

- Unit provides 12VDC 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


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# AL1024NKA8D

Dual Voltage Access Power Controller with Power Supply/Charger

## Specifications

### Power Supply (AL1024ULXB2):

**Input**

| | |
|---|---|
| Voltage | 115VAC 60Hz, 4.2A max |
| Input Fuse | 5A/250V |

**Outputs**

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

**Battery Charging**

| | |
|---|---|
| Capacity | 12AH/12VDC (2 within enclosure)<br>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<br>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) indepently 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) fuse 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 |

**ACMS8CB**

| | |
|---|---|
| Access Control | UL294, ULC-S319 |
| CE | European Conformity |

### Physical and Environmental

Dimensions (H x W x D)

Enclosure: 15.5" x 12.23" x 4.5" (393.7mm x 310.6mm 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: | 0ºC to 49ºC (32ºF to 120ºF) |
| Storage: | – 20ºC to 70ºC (– 4ºF to 158ºF) |

| | |
|---|---|
| Relative Humidity | 20 to 85%, non-condensing |
| BTU/Hr. (approx.) | 123 BTU/Hr. |



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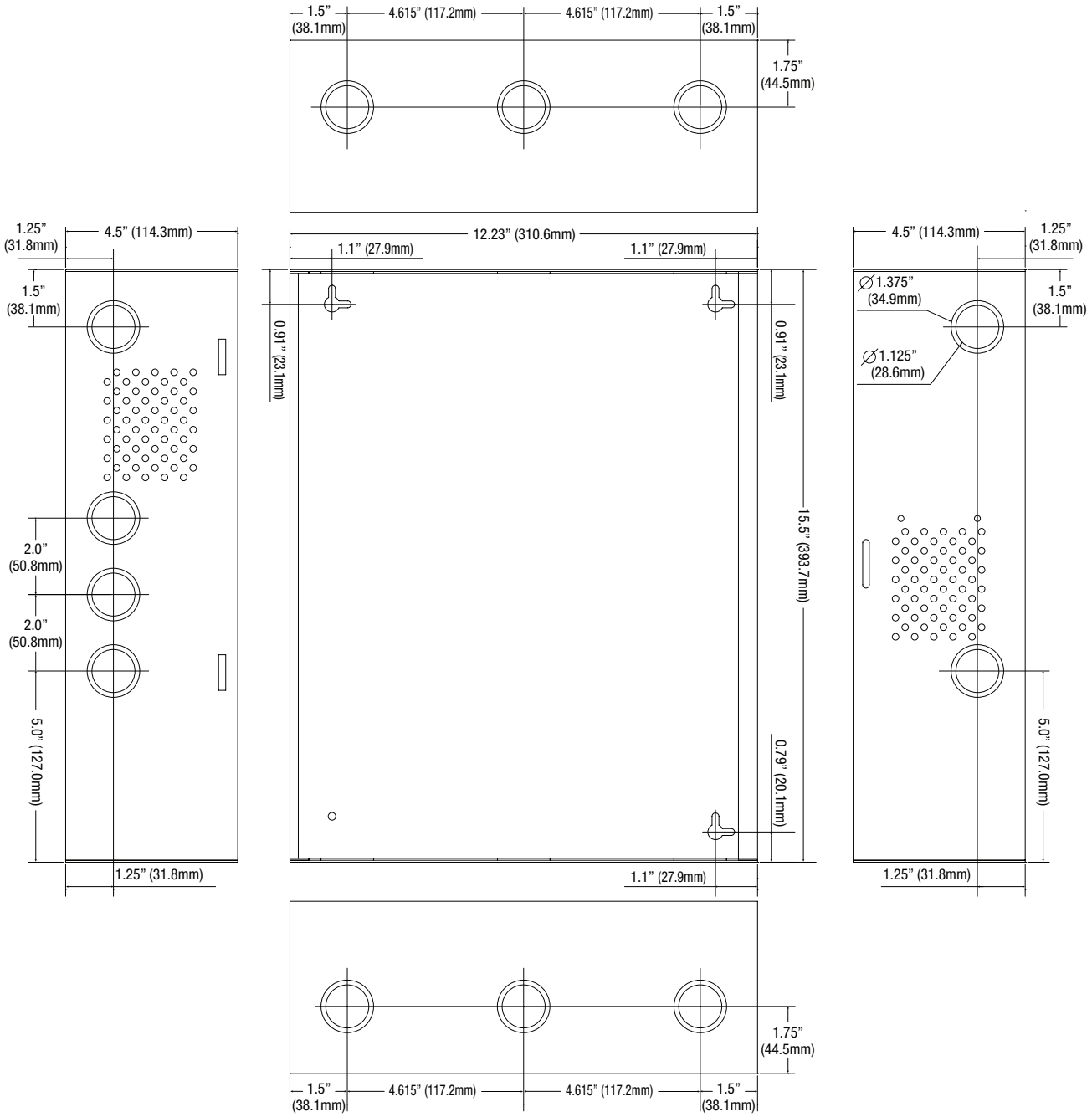
## Dimensions and Drawing

Dimensions (H x W x D approximate)

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