

T2AGK78S (Kit)

Access & Power Integration Solution for AMAG M4000

TROVE™

Altronix T2AGK78S kit consists of Trove2 enclosure, TAM2 AMAG/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) dual input fused access power controller, one (1) voltage regulator and one (1) dual input fused power distribution module. This kit also accommodate up to two (2) AMAG M4000 modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



T2AGK78S

*AMAG boards are not included***Key Features**

- 24VDC power supply/charger
- Accommodates up to two (2) AMAG M4000 modules
- Convenient knockout configuration:
 - One (1) single knockout 2.415" (2" Conduit)
 - Sixteen (16) double knockouts 1.362" (1" Conduit) / 1.115" (3/4" Conduit)
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown
- 16 AWG galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Agency Listings:
 - All Altronix components of this Trove kit are UL Listed sub-assemblies. Please refer to the Sub-Assembly Installation Guides for further information
 - UL: UL294 - Access Control System
 - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems
 - CE European Conformity
- Lifetime Warranty*

**Altronix Power Supply/Chargers and Sub-Assemblies only*

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 | 12VDC/12AH (4 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 (ACMS8):

Input

| | |
|-------------|----------------------------------------------|
| Voltage | 24VDC from AL1024ULXB2 and 12VDC from VR6 |
| Input Fuses | 15A/32V |

Outputs

| | |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Voltage | 12 or 24VDC individually selectable |
| Eight (8) selectable 12VDC - 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) 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 Fuses | 3A/32V |
|--------------|--------|

Indicators (LED)

| | |
|--------------------------|------------------------------------------|
| Red LEDs | Outputs are triggered (relays energized) |
| Blue LED | FACP disconnect is triggered |
| Individual voltage LEDs: | |
| Green: | 12VDC |
| Red: | 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 |

Dual Input Power Distribution Module (PDS8):

Input

| | |
|---------|----------------------------------------------|
| Voltage | 24VDC from AL1024ULXB2 and 12VDC from VR6 |
|---------|----------------------------------------------|

| | |
|-------------|---------|
| Input Fuses | 10A/32V |
|-------------|---------|

Outputs

| | |
|--------------------------------------------------------------------------------------|--------------------|
| Voltage | 12VDC and/or 24VDC |
| Any of the eight (8) power outputs are selectable to follow power Input 1 or Input 2 | |
| Individual outputs may be set to OFF position for servicing | |

| | |
|--------------|--------|
| Output Fuses | 3A/32V |
|--------------|--------|

Indicators (LED)

| | |
|-----------|----------------------------------|
| DC Output | Eight (8) individual output LEDs |
| Green: | 12VDC |
| Red: | 24VDC |

T2AGK78S Kit:

Agency Listings

| | |
|--------------------------------------------------------------------------------------------|---------------------|
| CE | European Conformity |
| All components of this Trove kit are UL Listed sub-assemblies | |
| Please refer to the corresponding Sub-Assembly Installation Guides for further information | |

Physical and Environmental:

Dimensions (H x W x D)

| | |
|------------|-------------------------------------------------------|
| Enclosure: | 27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm) |
| Shipping: | 32.5" x 26.5" x 11.125" (825.5mm x 673.1mm x 282.6mm) |

Weight (approx.)

| | |
|-----------|---------------------|
| Product: | 41.6 lb. (18.87 kg) |
| Shipping: | 45.6 lb. (20.68 kg) |

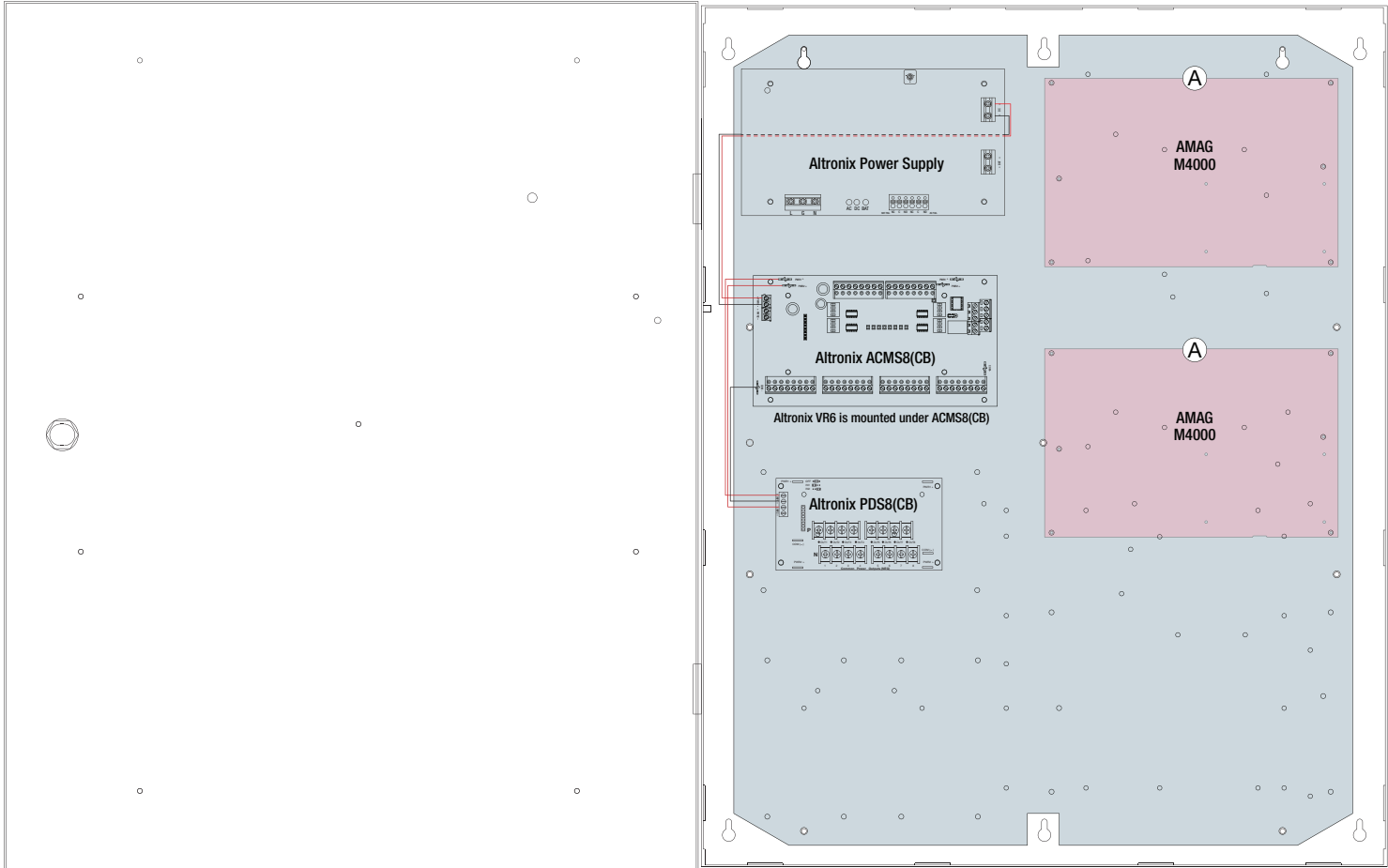
Temperature

| | |
|-----------|-------------------------------|
| 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.): | 145 BTU/Hr |

Access Controller Position Chart for the Following Models:

| AMAG | Pem Mounting |
|----------------------------------------------------|--------------|
| M4000-DEC4, M4000-DEC4 w/M4000-DBB, M4000-IOC20/16 | (A) |



Accessories (order separately)

WM5

WM5, WM25, WM100 - Magnetic Cable Tie Mounts

Altronix WM5, WM25, and WM100 are packs of 5, 25 or 100 magnetic cable tie mounts respectively. They accommodate standard zip ties or velcro straps. These are ideal for wire management in our Trove series.



Mounting Magnet

MM4, MM8, MM12, MM24 - Magnetic Mounting Solution

Altronix mounting magnets accommodate screws and nylon standoffs to allow for mounting various boards/ accessories in any metal enclosure or backplane.



BR1

BR1 - Sub-Assembly Mounting Bracket

Altronix BR1 mounting bracket is compatible with Altronix Maximal and Trove enclosures. It allows to mount one (1) PD4UL(CB), PD8UL(CB), ACM4(CB), MOM5, VR6, PDS8, NetWay5B or LINQ8PD(CB) sub-assembly on the enclosure's inside wall, saving valuable space.

Trove2BWC
with
batteriesTrove2BWC
with
wires**TROVE2BWC - Battery/Wire Trough Enclosure**

Altronix Trove2BWC is a dual-purpose enclosure that can be used as wiring trough or battery cabinet when mounted above or below of the Trove2 integrated power and access solution. The knockouts on the Trove2BWC have been strategically placed to line up with the Trove2 allowing for easy conduit connections between cabinets. Trove2BWC includes cam locks and 2 tamper switches to ensure access to wiring and batteries is secure.

