Altronix®

Rev. 01242025

T2AGK712SD (Kit)

Access & Power Integration Solution for AMAG M4000

TROVE™

Altronix T2AGK712SD kit consists of Trove2 enclosure, TAM2 AMAG/Altronix backplane with one (1) 24VDC @ 10A power supply/charger, one (1) 8-output dual input PTC access power controller, one (1) 4-output PTC access power controller, one (1) voltage regulator and one (1) dual input PTC power distribution module.

This kit also accommodate up to three (3) AMAG M4000 modules for up to twelve (12) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

AMAG TECHNOLOGY
A G4S COMPANY

T2AGK712SD

AMAG boards are not included

Key Features

- 24VDC power supply/charger
- Accommodates up to three (3) 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 gauge 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*

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Specifications

Power Supply/Charger (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 Power Distribution Module (PDS8CB):

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

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 PTCs: 2.5A

Indicators (LED)
- DC Output: Eight (8) individual output 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 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 - 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) 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
- Individual voltage LEDs:
  - Green: 12VDC
  - Red: 24VDC

Access Power Controller (ACM4CB):

Input
- Voltage: 24VDC from AL1024ULXB2
- Input PTC: 9A

Outputs
- Voltage: 24VDC

Four (4) independently controlled PTC outputs:

a) Fail-Safe and/or Fail-Secure power outputs
   Form "C" Relays rated 28VAC or VDC @ 2.5A
b) Auxiliary power outputs (unswitched)
c) Any combination of the above

- Output PTCs: 2.5A

Indicators (LED)
- Red LEDs: Outputs are triggered (relays energized)
- Green LED: FACP disconnect is triggered

T2AGK712SD Kit:

Agency Listings

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

- CE: European Conformity

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: 54.6 lb. (24.8 kg)
  - Shipping: 59.6 lb. (27 kg)
- Temperature
  - Operating: 0ºC to 49ºC (32ºF to 120ºF)
  - Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)
- Relative Humidity: 85% +/– 5%
- BTU/Hr. (approx.): 131 BTU/Hr.

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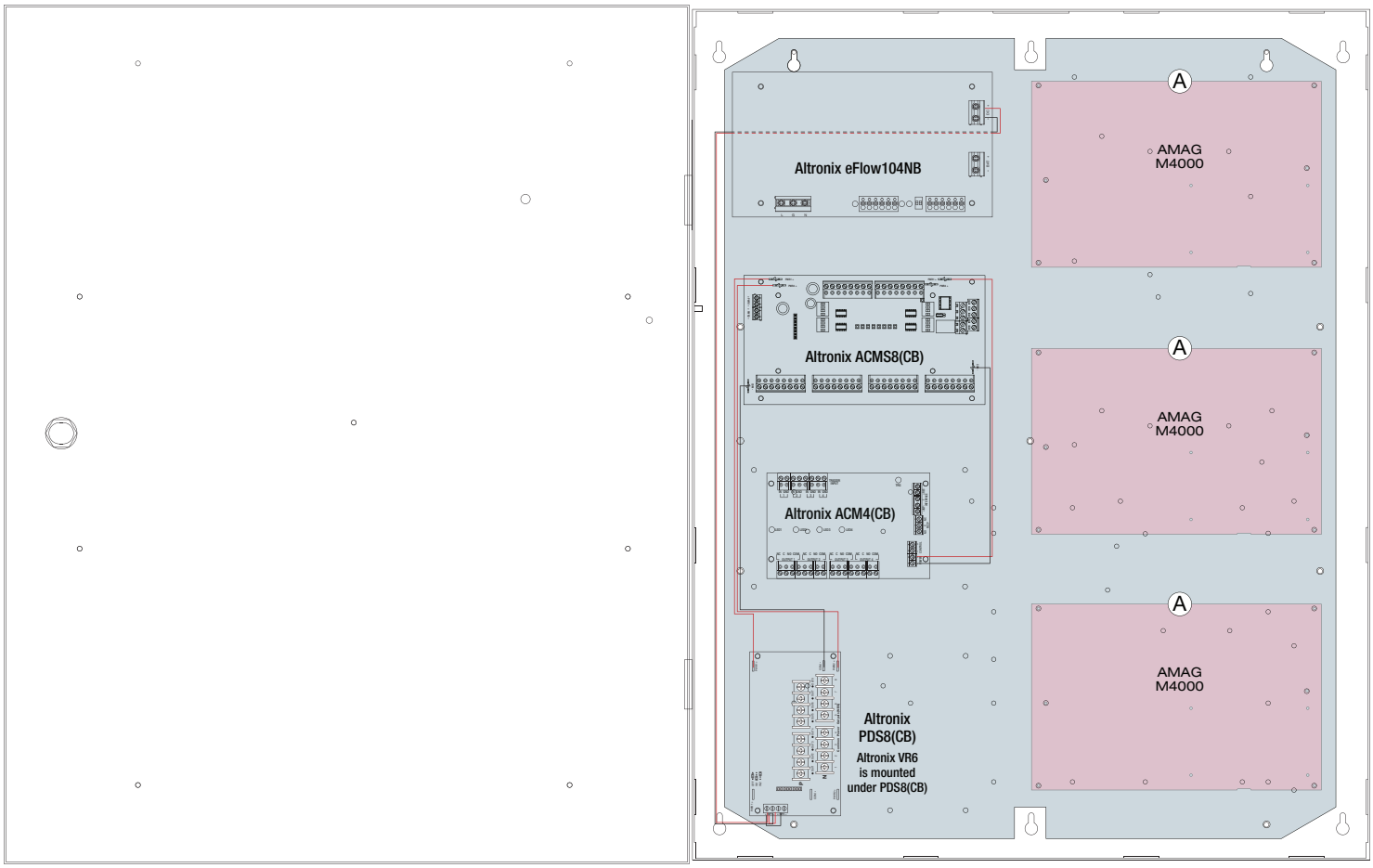
Access Controller Position Chart for the Following Models:

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



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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 batteries

Trove2BWC 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.

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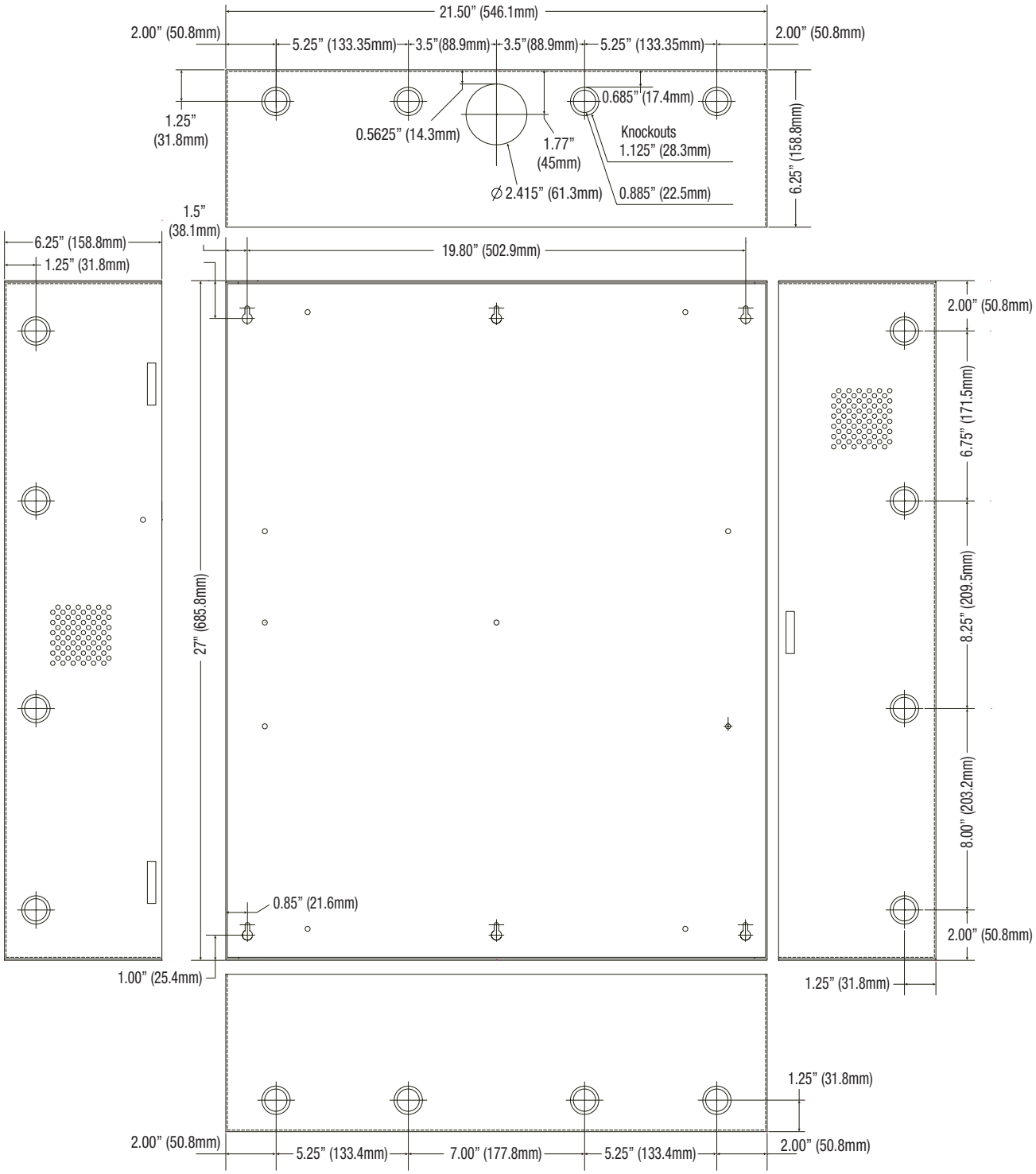
Dimensions and Drawing

Dimensions (H x W x D approximate)

27.25” x 21.5” x 6.5” (692.2mm x 546.1mm x 165.1mm)



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