Altronix®

T2AGK712SD (Kit)

Access & Power Integration Solution for AMAG M4000

TR☐VE™

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 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/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
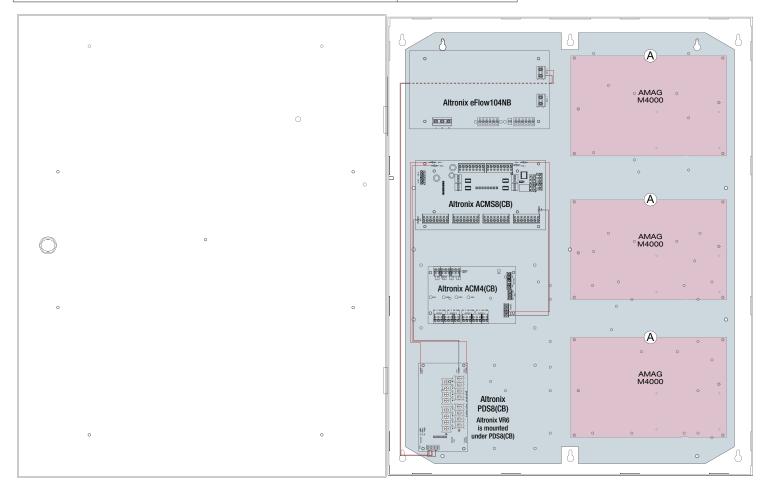|	
Operating	0ºC to 49ºC (32ºF to 120ºF)
Storage	– 20ºC to 70ºC (– 4ºF to 158ºF)
Relative Humidity	85% +/– 5%
BTU/Hr. (approx.):	131 BTU/Hr.

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TROVE™

Access Controller Position Chart for the Following Models:

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

Altronix eFlow104NB

Altronix ACMS8(CB)

Altronix ACM4(CB)

Altronix PDS8(CB)

Altronix VR6 is mounted under PDS8(CB)

Ⓐ AMAG M4000

Ⓐ AMAG M4000

Ⓐ AMAG M4000

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.

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)

21.50" (546.1mm)
2.00" (50.8mm)
5.25" (133.35mm) — 3.5"(88.9mm) — 3.5"(88.9mm) — 5.25" (133.35mm)
2.00" (50.8mm)
1.25" (31.8mm)
0.685" (17.4mm)
0.5625" (14.3mm)
1.77" (45mm)
Knockouts
1.125" (28.3mm)
6.25" (158.8mm)
∅ 2.415" (61.3mm)
0.885" (22.5mm)
1.5" (38.1mm)
6.25" (158.8mm)
1.25" (31.8mm)
19.80" (502.9mm)
2.00" (50.8mm)
6.75" (171.5mm)
27" (685.8mm)
8.25" (209.5mm)
8.00" (203.2mm)
0.85" (21.6mm)
1.00" (25.4mm)
2.00" (50.8mm)
1.25" (31.8mm)
1.25" (31.8mm)
2.00" (50.8mm)
2.00" (50.8mm)
5.25" (133.4mm) — 7.00" (177.8mm) — 5.25" (133.4mm)
2.00" (50.8mm)