

Description

Altronix T1MK1F4D kit consists of Trove1 enclosure and TM1 Altronix & Mercury/LeneIS2 backplane with 12VDC or 24VDC (factory set at 24VDC) @ 4A power supply/charger, 12VDC voltage regulator and four (4) PTC protected output access control module. This kit also accommodates various combinations of Mercury/LeneIS2* boards for up to four (4) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

***Also compatible with these authentic Mercury partners:**

AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identocard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic Video Insight, Quintron, RS2, Schneider Electric, Vanderbilt



T1MK1F4D

Key Features

- Accommodates the following Mercury/LeneIS2 controllers:
 - Mercury: LP1501, LP1502, LP2500, LP4502, MR16IN, MR16OUT, MR50, MR52, MR62e, MUX8.
 - LeneIS2: LNL-(X)2210, LNL-(X)2220, LNL-(X)3300, LNL-(X)4420, LNL-1100, LNL-1200, LNL-1320, LNL-1300, LNL-1324e, LNL-8000
- Convenient knockout configuration:
 - One (1) double knockout
1.948" (1-1/2" Conduit) / 1.701" (1-1/4" Conduit).
 - Nine (9) double knockouts
1.362" (1" Conduit) / 1.115" (3/4" Conduit).
- 16 AWG galvanized steel backplane simplifies board layout and wire management.
- Supervision
 - AC Fail
 - Low Battery and Battery Presence
 - Low power shutdown.
- Agency Listings:
 - UL: UL294 - Access Control System.
 - cUL: CAN/ULC - s319-05 - Electronic Access Control Systems.
 - CE European Conformity.
- Enclosure accommodates up to two (2) 12VDC/7AH batteries.
- Lifetime Warranty* / Made in the U.S.A.

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

Accessories (order separately)



LINQ2

LINQ2 - Network Supervision

Altronix LINQ2 Network Communication Module provides remote supervision, control and monitoring over LAN/WAN

- Remotely reports accurate power diagnostics
- Controls power and resets devices
- Reports system diagnostics via Email



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.

T1MK1F4D

Access & Power Integration Solution

Specifications

Power Supply (eFlow4NB):

Input

| | |
|-------------|---------------|
| Voltage | 120VAC, 60Hz. |
| Fuse Rating | 5A/250V. |

Output

| | |
|---------|--|
| Voltage | 24VDC. |
| Current | 4A continuous. |
| Other | Oversvoltage protection. Filtered and regulated. |

Battery Backup

| | |
|----------|---|
| Capacity | 7AH / 12VDC (Up to 2 within enclosure). 40 AH / 65 AH (requires separate enclosure). |
|----------|---|

Type Sealed lead acid or gel type.

Fuse Rating 7.5A/32V.

Failover Upon AC loss, instantaneous.

Supervision

AC Failure Form "C" contacts.

Battery Form "C" contacts.

Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 70-75% for 24V units (depending on the power supply).
Prevents deep battery discharge.

Indicators (LED)

Input 120VAC is present.

DC Output Powered.

Battery Discharged or not connected.

Voltage Regulator (VR6):

Input

Voltage 24VDC from eFlow4NB.

Output

| | |
|---------|--------------------|
| Voltage | 12VDC. |
| Current | 6A continuous. |
| Other | Surge suppression. |

Indicators (LED)

Input 24VDC is present.

Output Powered.

Access Power Controller (ACM4CB):

Input

| | |
|------------|----------------------|
| Voltage | 24VDC from eFlow4NB. |
| Input Fuse | 10A/32V. |

Outputs

| | |
|---|--------|
| Voltage | 24VDC. |
| Four (4) independently controlled 2.5A outputs: | |
| a) Four (4) Fail-Safe and/or Fail-Secure power outputs. | |
| b) Any combination of the above. | |

Four (4) auxiliary power outputs (unswitched).

Outputs Ratings

PTCs 2.5A.

Indicators (LED)

Red LEDs Outputs are triggered (relays energized).

Green LED FACP disconnect is triggered.

T1MK1F4D 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)

18" x 14.5" x 4.62" (457.2mm x 368.3mm x 118.0mm).

Weight (approx.)

Product 16.23 lbs. (7.36 kg)

Shipping 20.23 lbs. (9.07 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.): 90 BTU/Hr.

Access Controller Position Chart for the Following Models:

| Mercury | LenelS2 | Pem Mounting |
|---------------------------------------|--|--------------|
| LP2500, MUX8 | LNL-(X)3300, LNL-8000 | (A) |
| LP1502, LP4502, MR52, MR16IN, MR16OUT | LNL-(X)2220, LNL-(X)4420, LNL-1100, LNL-1200, LNL-1320 | (B) |
| LP1501, MR62e | LNL-(X)2210, LNL-1324e | (C) |
| MR50 | LNL-1300 | (D) |



