

## T2DMK75F16D (Kit)

Access & Power Integration Solution for DMP

Altronix T2DMK75F16D kit consists of Trove2 enclosure, TDM2 DMP/Altronix backplane with one (1) 24VDC @ 10A and one (1) 12VDC @ 10A power supply/chargers, two (2) PTC access power controllers and two (2) PTC power distribution modules.

This kit also accommodates up to eight (8) DMP 734/734N Wiegand modules for up to eight (8) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.



# TROVE™



T2DMK75F16D

*DMP modules are not included*

### Key Features

- 24VDC and 12VDC power supply/chargers
- Accommodates up to eight (8) DMP 734/734N Wiegand 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
- 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.
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/12AH batteries
- Lifetime Warranty\*

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

## Specifications

### Power Supply/Charger 1 (eFlow104NB):

#### Input

|            |                    |
|------------|--------------------|
| Voltage    | 120VAC, 60Hz, 4.5A |
| Input Fuse | 6.3A/250V          |

#### Output

|            |                                                |
|------------|------------------------------------------------|
| Voltage    | 24VDC @ 10A.                                   |
| Auxiliary  | 1A (unswitched)                                |
| Protection | Overvoltage protection. Filtered and regulated |

### Power Supply/Charger 2 (eFlow102NB):

#### Input

|            |                    |
|------------|--------------------|
| Voltage    | 120VAC, 60Hz, 3.5A |
| Input Fuse | 5A/250V            |

#### Output

|            |                                                |
|------------|------------------------------------------------|
| Voltage    | 12VDC @ 10A                                    |
| Auxiliary  | 1A (unswitched).                               |
| Protection | Overvoltage protection. Filtered and regulated |

### Both Power Supplies:

#### Battery Charging

|                               |                                                                            |
|-------------------------------|----------------------------------------------------------------------------|
| Capacity                      | 12VDC/12AH (4 within enclosure)<br>40AH/65AH (requires separate enclosure) |
| Type                          | Sealed lead acid or gel type                                               |
| Failover                      | Upon AC loss, instantaneous                                                |
| Batteries are sold separately |                                                                            |

#### Fire Alarm Disconnect

|            |                          |
|------------|--------------------------|
| Supervised | Latching or non-latching |
| EOL        | 10K Resistor             |

#### Supervision

|            |                   |
|------------|-------------------|
| AC Failure | Form "C" contacts |
| Battery    | Form "C" contacts |

#### Low DC Power Shutdown

Shuts down DC output terminals if battery voltage drops below 71-73% for 12V units and 70-75% for 24V units (depending on the power supply). Prevents deep battery discharge

#### Indicators (LED)

|           |                             |
|-----------|-----------------------------|
| AC Input  | 120VAC is present           |
| DC Output | Powered                     |
| Battery   | Discharged or not connected |

### Two (2) Power Distribution Modules (PD8ULCB):

#### Input

|         |                       |
|---------|-----------------------|
| Voltage | 12VDC from eFlow102NB |
|---------|-----------------------|

#### Outputs

|         |       |
|---------|-------|
| Voltage | 12VDC |
| PTCs    | 2.5A  |

#### Indicators (LED)

|           |           |
|-----------|-----------|
| Green LED | DC Output |
|-----------|-----------|

### Two (2) Access Power Controllers (ACM8CB):

#### Input

|            |                       |
|------------|-----------------------|
| Voltage    | 24VDC from eFlow104NB |
| Input Fuse | 10A/250V              |

#### Outputs

|                                                       |       |
|-------------------------------------------------------|-------|
| Voltage                                               | 24VDC |
| Eight (8) 24VDC 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             |

### T2DMK75F16D 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  | 49 lb. (22.23 kg)   |
| Shipping | 53.35 lb. (24.2 kg) |

##### Temperature

|           |                                 |
|-----------|---------------------------------|
| Operating | 0°C to 49°C (32°F to 120°F)     |
| Storage   | - 20°C to 70°C (- 4°F to 158°F) |

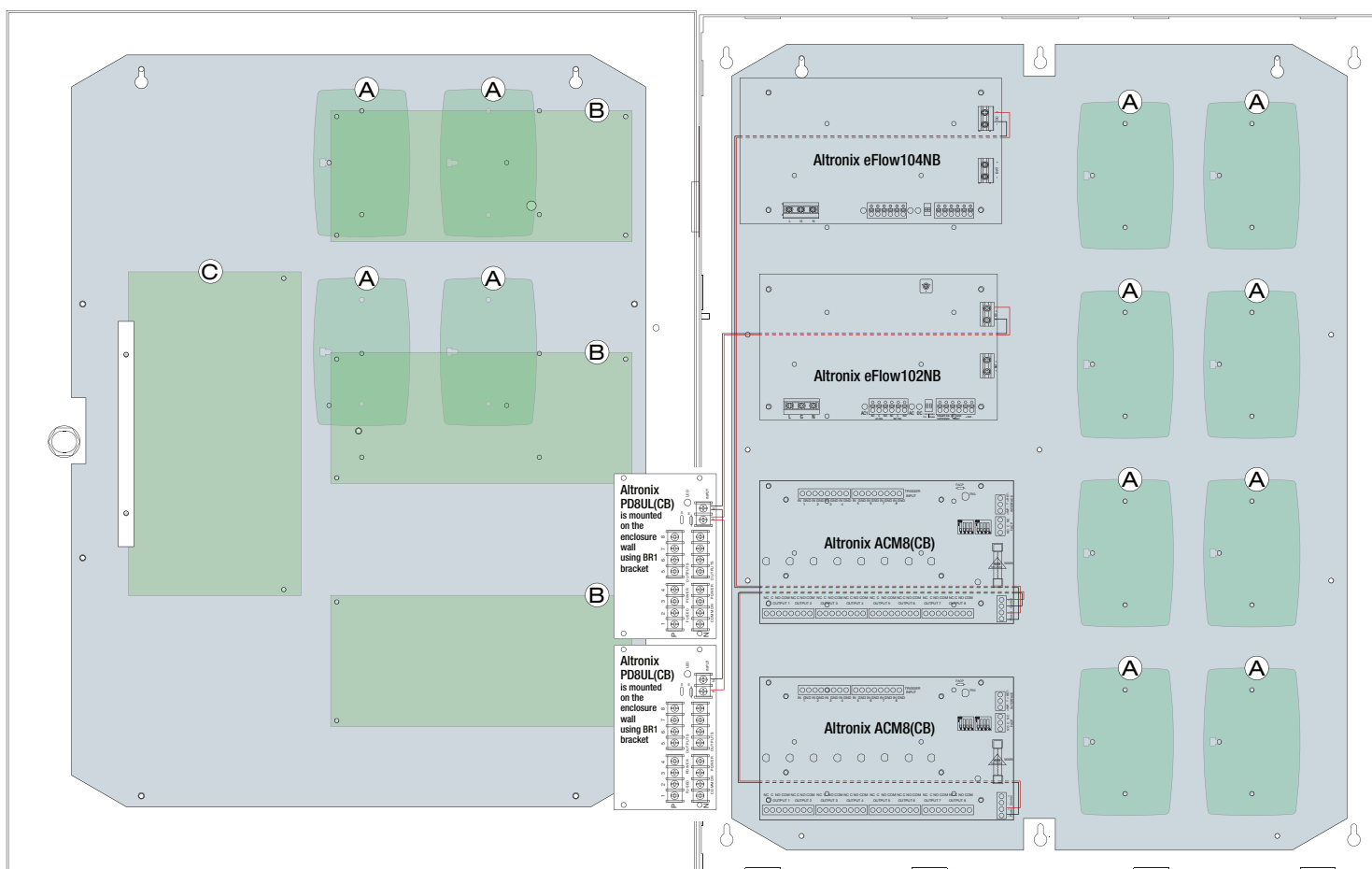
|                   |            |
|-------------------|------------|
| Relative Humidity | 85% +/- 5% |
|-------------------|------------|

|                   |             |
|-------------------|-------------|
| BTU/Hr (approx.): | 217 BTU/Hr. |
|-------------------|-------------|

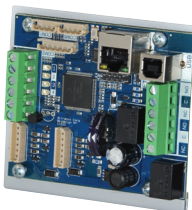
## Access Controller Position Chart for the Following Models:

| DMP                     | Pem Mounting |
|-------------------------|--------------|
| DMP 734 Wiegand Modules | (A)          |
| DMP 714-8, 714-16       | (B)          |
| DMP XR150, XR550        | (C)          |

TDMD2 Door Backplane (Order Separately)



**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.



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)

