

## Trove / Mercury Kits (fused) Access & Power Integration Solution

### Description

Altronix Trove Mercury kits are pre-assembled and consist of Trove2M2 enclosure/backplane and TMV2 door backplane\* with factory installed Altronix power supply/charger(s) and sub-assemblies. These kits also accommodate various combinations of Mercury boards for up to sixteen (16) doors in a single enclosure. Trove simplifies board layout and wire management, reduces installation time and labor costs.

*\*TMV2 is included with T2MK75F16, T2MK75F16Q, T2MK77F16, and T2MK77F16Q only.*



T2MK7F8Q

### Key Features

- Accommodates the following Mercury controllers: EP1502, MR52, MR16IN, MR16OUT, EP2500, MUX8, MR51e, EP1501, MR50, and Genetec Synergis Cloud Link.
- Convenient knockout configuration:
  - Single 2" diameter knockout located top center of enclosure
  - Sixteen (16) double knockouts (1" and 0.75").
- 16 AWG galvanized steel backplane simplifies board layout and wire management.
- Filtered and electronically regulated outputs.
- Thermal and short circuit protection with auto reset.
- Supervision
  - AC Fail
  - Low Battery and Battery Presence
  - Low power shutdown.
- Built-in charger(s) for sealed lead acid or gel type batteries.
- Instantaneous transfer to stand-by batteries.
- AC input and DC output LED indicators.
- Enclosure accommodates up to four (4) 12VDC/12AH batteries.
- Lifetime Warranty\* / Made in the U.S.A.

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

### Trove Mercury Kit Components Reference Chart

Altronix Model Number	Backplanes Installed	Maximum Number of Doors Accommodated	Power Supplies		Network Communications Module	Access Power Controllers	Voltage Regulator	Power Distribution Module
			Power Supply 1	Power Supply 2				
T2MK3F4	TM2	4	eFlow6NB	---	---	ACM4	VR6	PDS8
T2MK3F4Q					LINQ2			
T2MK3F8		8			---	ACM8		
T2MK3F8Q					LINQ2			
T2MK7F8			---					
T2MK7F8Q			LINQ2					
T2MK75F16	TM2 and TMV2	16	eFlow104NB	eFlow102NB	---	Two (2) ACM8	---	PD8UL
T2MK75F16Q				LINQ2	---			
T2MK77F16			eFlow104NB	---	VR6		PDS8	
T2MK77F16Q				LINQ2				

### Trove Mercury Kit Configuration Reference Chart

Altronix Model Number	Nominal DC Output Voltage				Maximum Supply Current for Main and Aux. Outputs on Power Supply board and ACM4/ACM8 Access Power Controller's outputs	Fail-Safe/Fail- Secure or Dry Form "C" Outputs	120VAC 60Hz Input Current (A)	Current Per ACM4/ ACM8 Output (A)	Power Supply Board Input Fuse Rating	Power Supply Board Battery Fuse Rating	ACM4/ACM8 Board Input Fuse Rating	ACM4/ACM8 Board Output Fuse Rating	PDS8 Board Input Fuse Rating	PDS8 Board Output Fuse Rating	PD8UL Board Output Fuse Rating
	Power Supply 1		Power Supply 2												
	[DC]	[Aux]	[DC]	[Aux]											
	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)	Output Range (VDC)											
T2MK3F4	20.19- 26.4	20.19- 26.4	---	---	24VDC @ 5.8A	4	3.5	2.0	5A/ 250V	10A/ 32V	10A/ 250V	3A/ 250V	10A/ 250V	3A/ 250V	---
T2MK3F4Q															
T2MK3F8															
T2MK3F8Q															
T2MK7F8	20.17- 26.4	20.28- 26.4	9.7- 13.2	10.03- 13.2	24VDC @ 9.2A	8	4.5	6.3A/ 250V	6.3A/250V 5A/250V	15A/ 32V	10A/ 250V	2.5A/ 250V	---	---	3.5A/ 250V
T2MK7F8Q					24VDC @ 9.2A										
T2MK75F16					24VDC @ 9.2A 12VDC @ 9.3A										
T2MK75F16Q					24VDC @ 9.2A										
T2MK77F16					20.17- 26.4	20.28- 26.4									
T2MK77F16Q						9		6.3A/ 250V				10A/ 250V	3A/ 250V	---	

### Specifications

#### Input

Voltage	120VAC, 60Hz.
Fusing	Varies, see Configuration Reference Chart.

#### Outputs

Voltage	12 or 24VDC, see Configuration Reference Chart.
Current	Varies, see Configuration Reference Chart.
Other	Overvoltage protection. Filtered and regulated.

#### Back-up Battery (not included)

Capacity	12AH / 12VDC (Up to 4 within enclosure). 40 AH / 65 AH (requires separate enclosure).
Type	Sealed lead acid or gel type.
Fuse Rating	Varies, see Reference Chart.
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 71-73% for 12V units and 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.

#### Physical and Environmental

##### Dimensions (H x W x D)

27.25" x 21.5" x 6.5" (692.2mm x 546.1mm x 165.1mm).

##### Weight (approx.)

Model	Product Weight	Shipping Weight
T2MK3F4	39.2 lbs. (17.78 kg)	43 lbs. (19.5 kg)
T2MK3F4Q	39.6 lbs. (18 kg)	43.35 lbs. (19.66 kg)
T2MK3F8	39.6 lbs. (18 kg)	43.35 lbs. (19.66 kg)
T2MK3F8Q	40.0 lbs. (18.15 kg)	43.75 lbs. (19.85 kg)
T2MK7F8	40.1 lbs. (18.19 kg)	43.85 lbs. (19.9 kg)
T2MK7F8Q	40.5 lbs. (18.37 kg)	44.25 lbs. (20.1 kg)
T2MK75F16	41.1 lbs. (18.64 kg)	44.85 lbs. (20.34 kg)
T2MK75F16Q	41.5 lbs. (18.82 kg)	45.25 lbs. (20.5 kg)
T2MK77F16	41.3 lbs. (18.73 kg)	45.05 lbs. (20.43 kg)
T2MK77F16Q	41.7 lbs. (18.9 kg)	45.45 lbs. (20.62 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.):

Model	BTU
T2MK3F4, T2MK3F4Q, T2MK3F8, T2MK3F8Q	87
T2MK7F8, T2MK7F8Q	145
T2MK75F16, T2MK75F16Q	217
T2MK77F16, T2MK77F16Q	289