

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.*



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.
- AC input and DC output LED indicators.
- 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.
- CE European Conformity.
- 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								
T2MK7F8			—		ACM8			
T2MK7F8Q								
T2MK75F16	TM2 and TMV2	16	eFlow104NB	eFlow102NB		Two (2) ACM8	—	PD8UL
T2MK75F16Q				LINQ2				
T2MK77F16			eFlow104NB	—	VR6		PDS8	
T2MK77F16Q				LINQ2				

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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						8									
T2MK3F8															
T2MK3F8Q															
T2MK7F8	20.17- 26.4	20.28- 26.4	9.7- 13.2	10.03- 13.2	24VDC @ 9.2A	16	8	6.3A/250V 5A/250V	15A/ 32V	10A/ 250V	2.5A/ 250V	—	—	3.5A/ 250V	
T2MK7F8Q															
T2MK75F16															
T2MK75F16Q															
T2MK77F16															
T2MK77F16Q			20.17- 26.4	20.28- 26.4	24VDC @ 9.2A		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.

Battery Back-up

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.

Agency Listings

CE European Conformity.

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	49 lbs. (22.23 kg)	53.35 lbs. (24.2 kg)
T2MK75F16Q	50 lbs. (22.68 kg)	53.75 lbs. (24.38 kg)
T2MK77F16	49.8 lbs. (22.59 kg)	53.55 lbs. (24.29 kg)
T2MK77F16Q	50.2 lbs. (22.77 kg)	53.95 lbs. (24.47 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