Altronix®

Rev. 07182023

T1RM3CK1 (Pre-wired Kit)

Rack Access and Power Integration Solution for Mercury

TROVE™

Altronix T1RM3CK1 is a 4-door access and power integration kit which includes Altronix power and sub-assemblies along with factory installed wire management and wire assemblies that are pre-configured with terminal blocks for Mercury* hardware. This unit provides ample power and dual voltage outputs to support Mercury platform controllers and locking devices. The T1RM3CK1 accommodates one (1) Intelligent Dual Reader Controller and one (1) Dual Reader Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.

T1RM3CK1 - includes eFlow6RLB, ACM4, VR6, PDS8, wire harnesses and management

Mercury boards are not included

*Also compatible with these authentic Mercury partners:
AccessNsite, Avigilon, BadgePass, BluBox, Feenics, Genetec, Identicard, IMRON, Johnson Controls, Kastle, Keri Systems, LockState, Maxxess, Midpoint Security, NLSS, Open Options, Panasonic i-PRO MonitorCast, Quintron, RS2, S2 Security, Schneider Electric, Vanderbilt

Mercury™

Key Features

- Accommodates the following Mercury controllers:
  1 - LP1502 / LP4502 and 1 - MR52
- Power status LED on front panel
- Simplified board layout and wire management
- Convenient knockout configuration:
  - Four (4) double knockouts - 3/4" Conduit and 1" Conduit
  - Two (2) double knockouts - 1/2" Conduit and 3/4" Conduit
- 6' IEC320 3-wire power cord
- 2U drawer on extendable rails
- Black powder coated steel enclosure
- Included Z Bracket facilitates ease of wiring
- Includes cam lock, tamper switch and mounting hardware
- CE European Conformity
- Lifetime Warranty*

Altronix Power Supply/Charger and Sub-Assemblies only

Accessories (order separately)

RE2

RE2 - Rack Mount Battery Enclosure
accommodates up to four (4) 12VDC/7AH batteries

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.

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

Altronix®

T1RM3CK1 (Pre-wired Kit)

Rack Access and Power Integration Solution for Mercury

TROVE™

Specifications

Power Supply/Charger (eFlow6RLB):

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

Output
- Voltage: 24VDC
- Current: 6A continuous
- Auxiliary: 1A (unswitched)
- Other: Overvoltage protection. Filtered and regulated

Battery Charging
- 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
- 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

Dual Input Power Distribution Module (PDS8):

Input
- Voltage: 24VDC from eFlow6RLB and 12VDC from VR6
- Input Fuses: 10A/32V

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 Fuses: 3A/32V

Indicators (LED)
- DC Output: Eight (8) individual output LEDs
  - Green: 12VDC
  - Red: 24VDC

Voltage Regulator (VR6):

Input
- Voltage: 24VDC from eFlow6RLB

Output
- Voltage: 12VDC
- Current: 6A continuous
- Other: Surge suppression

Indicators (LED)
- Input: 24VDC is present
- Output: Powered

Access Power Controller (ACM4):

Input
- Voltage: 24VDC from eFlow6RLB
- Input Fuse: 10A/32V

Outputs
- Voltage: 24VDC

Four (4) independently controlled fused 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 Fuses: 3A/32V

Indicators (LED)
- Red LEDs: Outputs are triggered (relays energized)
- Green LED: FACP disconnect is triggered

T1RM3CK1 Kit:

Agency Listings
- CE: European Conformity

Physical and Environmental:

Dimensions (H x W x D):
- Modular 2U standard EIA 19" rack mount chassis
- Enclosure: 3.25" x 19.0" x 26.5" (82.6mm x 482.6mm x 673.1mm)
- Shipping: 31" x 23" x 8.25" (787.4mm x 584.2mm x 209.6mm)

Weights (approx.):
- Product: 20 lb. (9.07 kg)
- Shipping: 25 lb. (11.34 kg)

Temperature
- Operating: 0ºC to 49ºC (32ºF to 120ºF)
- Storage: – 20ºC to 70ºC (– 4ºF to 158ºF)

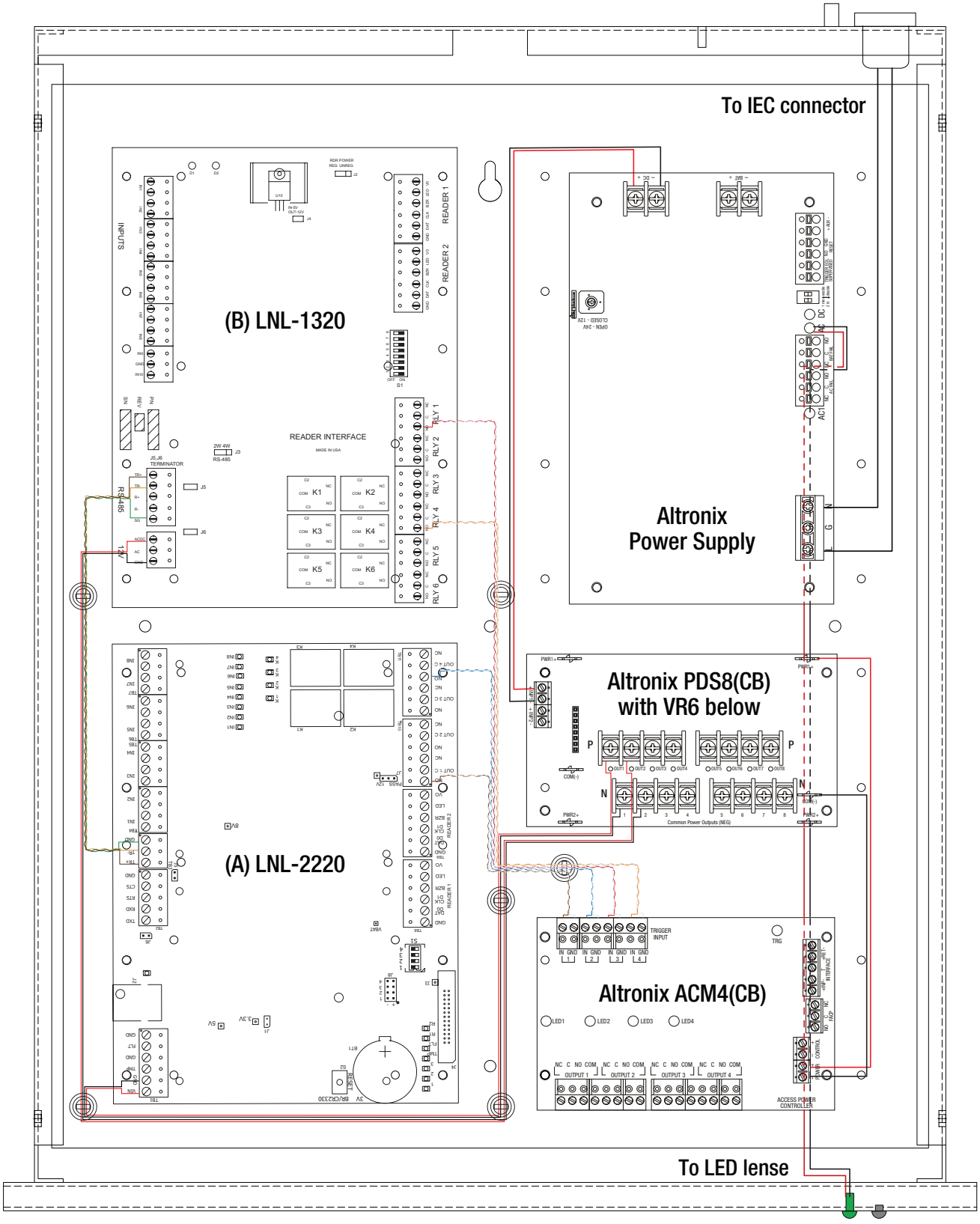
Relative Humidity: 85% +/– 5%

BTU/Hr.: 87 BTU/Hr.

Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

T1RM3CK1 (Pre-wired Kit)

Rack Access and Power Integration Solution for Mercury



Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com

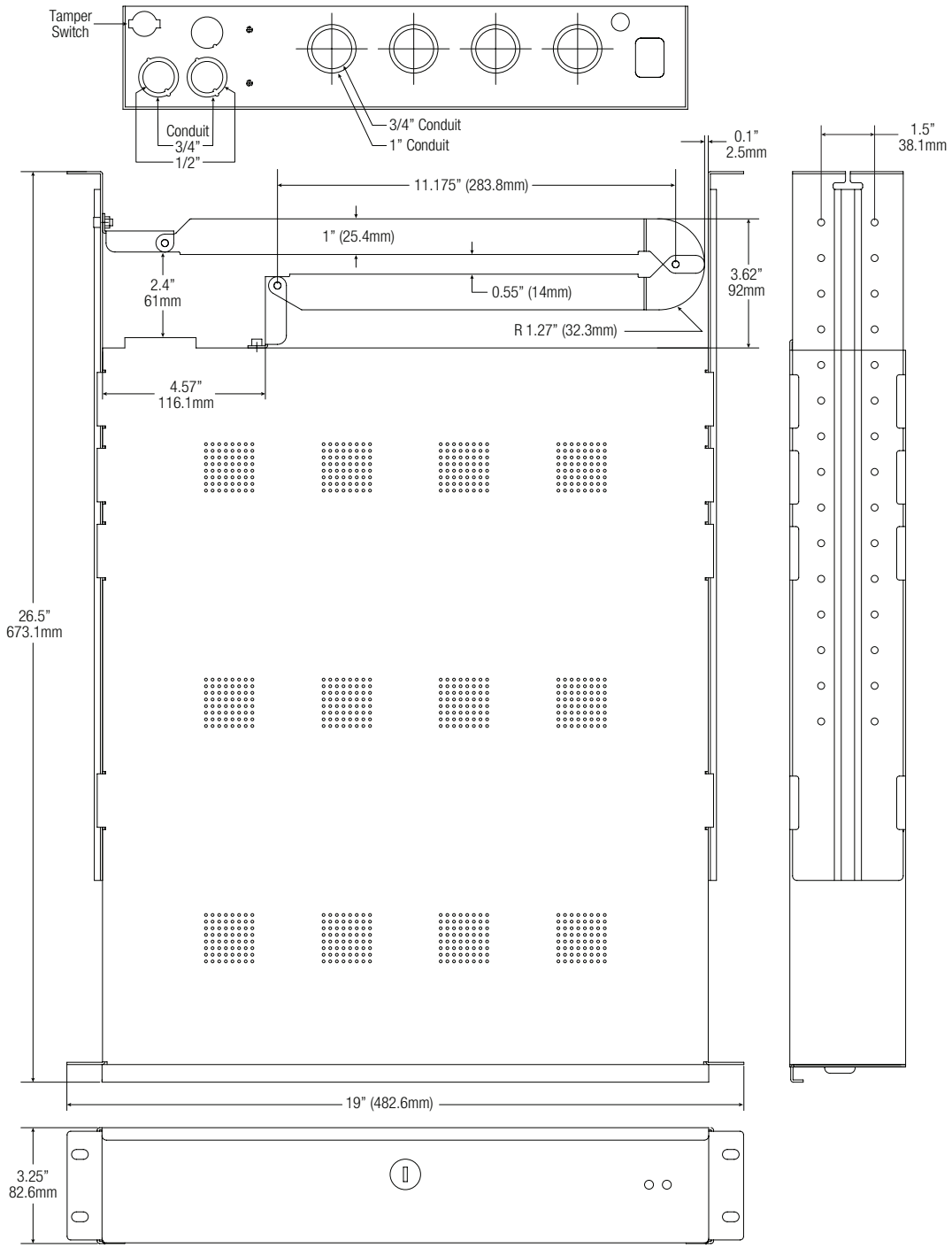
T1RM3CK1 (Pre-wired Kit)

Rack Access and Power Integration Solution for Mercury

Dimensions and Drawing

Dimensions (H x W x D approximate)

3.25” x 19.0” x 26.5” (82.6mm x 482.6mm x 673.1mm)



Altronix Corporation | 140 58th St | Brooklyn, NY 11220 USA
phone: +1 718.567.8181 | fax: +1 718.567.9056 | email: info@altronix.com | www.altronix.com