

T2V7XK1 (Pre-wired Kit)

Access and Power Integration Solution for HID Aero



Altronix T2V7XK1 is a 8-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 HID Aero hardware. This unit provides ample power and dual voltage outputs to support HID Aero platform controllers and locking devices. The T2V7XK1 accommodates one (1) X1100 Intelligent Controller and three (3) X100 Input Monitor Interface Modules. Trove Plus simplifies field installations and provides reliable, robust critical power and control for the most demanding applications.



T2V7XK1 - includes
eFlow104NB, ACMS8, VR6, PDS8,
wire harnesses and finger duct

HID Aero boards are not included

Key Features

- Accommodates the following HID Aero modules:
 - 1 - X1100 and 3 - X100
- Convenient knockout configuration:
 - One (1) single knockout - 2" Conduit.
 - Sixteen (16) double knockouts - 1/2" Conduit and 3/4" Conduit.
- Unit includes:
 - Removable backplane
 - 2" high finger duct for wire management
 - Custom wire assemblies for power distribution with terminal blocks for controller connections
- Supervision
 - AC Fail
 - Battery Fail and Battery Presence
 - Low power shutdown
- 16 gauge galvanized steel backplane simplifies board layout and wire management
- Enclosure accommodates up to four (4) 12VDC/7AH batteries
- CE European Conformity
- Lifetime Warranty*

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

Specifications

Power Supply/Charger (eFlow104NB):

Input

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

Output

Voltage 24VDC
 Current 10A continuous
 Auxiliary 1A (unswitched)
 Other Overvoltage protection. Filtered and regulated

Battery Charging

Capacity 12VDC/7AH (4 within enclosure)
 40AH/65AH (requires separate enclosure)
 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 Access Power Controller (ACMS8):

Input

Voltage 24VDC from eFlow104NB and 12VDC from VR6
 Input Fuses 15A/32V

Outputs

Voltage 12 or 24VDC individually selectable
 Eight (8) selectable 12VDC - 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:
 a) Fail-Safe and/or Fail-Secure power outputs
 b) Form "C" Relays. 28VAC or VDC @ 2.5A Rated
 c) Auxiliary power outputs (unswitched)
 d) Any combination of the above

Any of the eight (8) fuse protected 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)

Red LEDs Outputs are triggered (relays energized)
 Blue LED FACP disconnect is triggered

Individual voltage LEDs:

Green: 12VDC
 Red: 24VDC

Voltage Regulator (VR6):

Input

Voltage 24VDC from eFlow104NB

Output

Voltage 12VDC
 Current 6A continuous
 Other Surge suppression

Indicators (LED)

Input 24VDC is present
 Output Powered

Dual Input Power Distribution Module (PDS8):

Input

Voltage 24VDC from eFlow104NB 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

T2V7XK1 Kit:

Agency Listings

CE European Conformity
 All components of this Trove kit are UL Listed sub-assemblies
 Please refer to the corresponding Sub-Assembly Installation Guides for further information

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: 41.6 lb. (18.87 kg)
 Shipping: 45.6 lb. (20.68 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.):

145 BTU/Hr

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)

