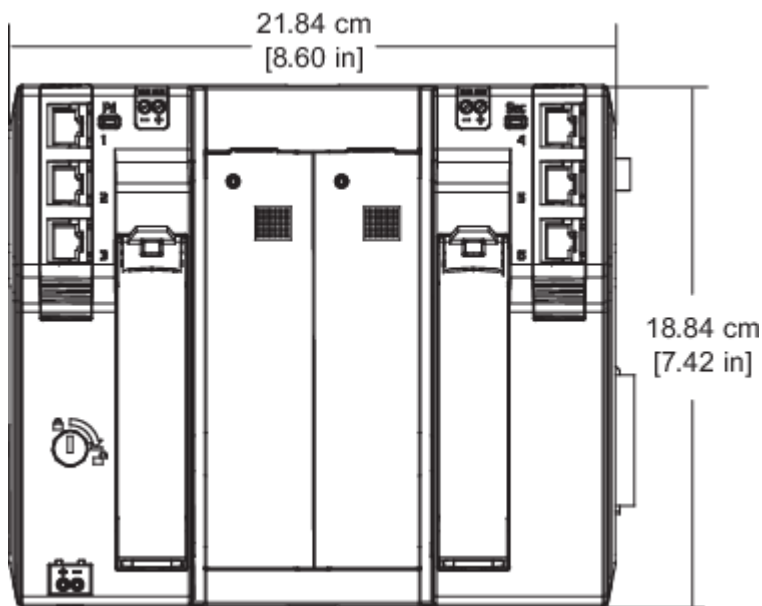


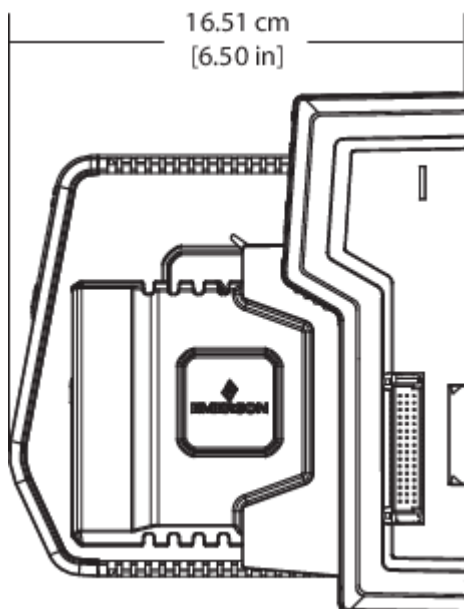
PK controller and carrier specifications

The PK controller carrier can control either the 4-wide I/O carrier or up to eight 8-wide I/O carriers. I/O carriers connected to the PK controller carrier can contain any non-I.S. DeltaV I/O cards.

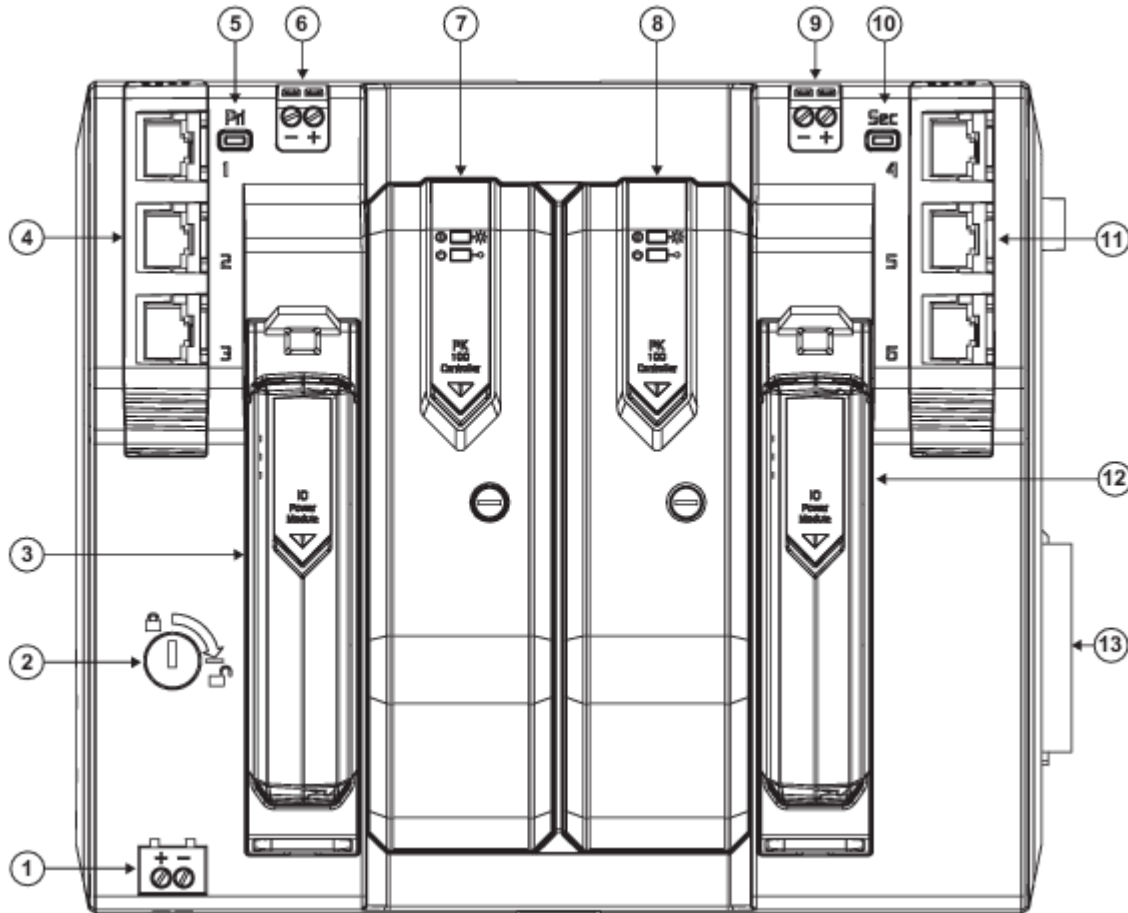
Dimensions of PK controller carrier



Dimension of PK controller



PK controller carrier parts locator diagram



Callout	Description
①	Screw terminals for backup battery connection
②	Physical key switch When the switch is in the locked position, the KeyLockStatus parameter of the PK controller has a value of TRUE and you cannot download, decommission, upgrade or Telnet to the PK controller. When unlocked, you can commission and authenticate the PK controller; and, backup or retrieve the PK controller's project.
③	Redundant Power Module Provides power to connected I/O.

Callout	Description
④	Ethernet ports 1-3. These appear in software as Network Portx. The three RJ45 connectors on the primary ports are connections for separate networks. These have an electrically isolated Faraday shield for each port. The Faraday shield for each RJ45 connector has no DC ground connection (floats) and only is used to extend the shield onto the electronics around the Ethernet circuitry.
⑤	Pushbutton release for Ethernet ports 1-3
⑥	Screw terminals for primary power
⑦	Redundant PK controller
⑧	Redundant PK controller
⑨	Screw terminals for secondary power
⑩	Pushbutton release for Ethernet ports 4-6
⑪	Ethernet ports 4-6. These appear in software as Network Portx. The three RJ45 connectors on the secondary ports are connections for separate networks. These have an electrically isolated Faraday shield for each port. The Faraday shield for each RJ45 connector has no DC ground connection (floats) and only is used to extend the shield onto the electronics around the Ethernet circuitry.
⑫	Redundant Power Module Provides power to connected I/O.
⑬	Carrier connector

Specifications

PK controller specifications

Item	Specification
Input power requirement through the PK controller carrier	+24 VDC \pm 10% at 350 mA maximum; 700 mA maximum for redundant
Externally applied backup power for real-time clock	+5.0 to +12.6 VDC at 15 uA typical

Item	Specification
Power dissipation	7.5 W simplex; 15 W redundant
Isolation	None. All circuits are referenced to the +24 VDC return
SD card interface	Supports a removable SDHC version 2.0 memory card of either 2 GB or 8 GB capacity. The memory card is physically accessible only when the PK controller is removed from the carrier

PK controller carrier specifications

Item	Specification
Capacity	Two PK controllers
Input power (redundant)	+24 VDC $\pm 10\%$ at 2.75 A maximum
Battery power for real-time clock in PK controllers	+5.0 to +12.6 VDC at 1 mA
Output power to I/O card carrier(s)	+12.25 VDC at 3.0 A maximum
Redundant Ethernet connections (six)	Copper twisted pair: 10/100BASE-TX with RJ45 connectors; full duplex operation
Ethernet port power requirement, each (provided by controller)	+5.0 VDC at 200 mA maximum; carrier supports +5.0 VDC at 300 mA maximum
Mounting	Upright on a horizontal DIN rail