

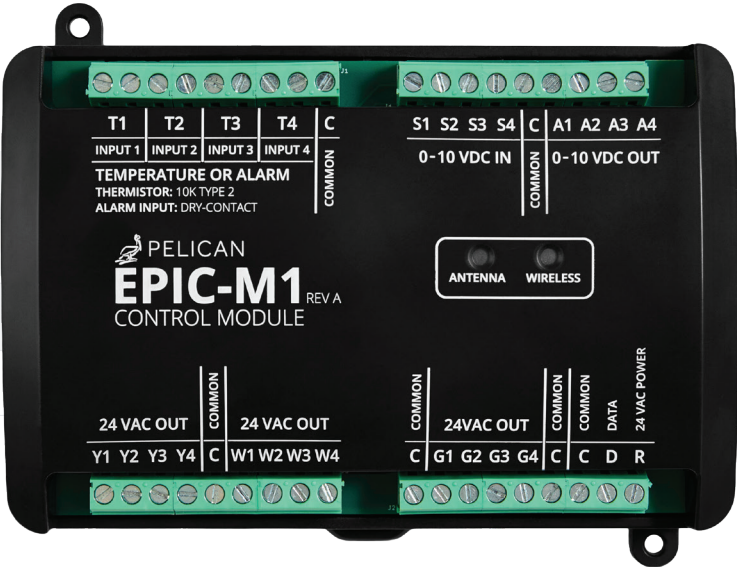
Plant Controller - EPIC-M1

Networked & Internet Connected Plant Control

The Pelican Plant Controller provides centralized control, monitoring, and remote management for commercial water plants through the Pelican platform. Designed for chiller plants, boiler systems, pumps, and cooling towers, the EPIC-M1 supports equipment staging, rotation, modulation, and sequencing to maintain efficient and reliable plant operation.

The controller supports differential pressure monitoring, flow rate management, plant demand control strategies, and scheduled operation, allowing the plant to automatically adapt based on real-time system conditions, occupancy schedules, or building demand. Through the Pelican web application, operators have full access to live plant status, alarms, schedules, historical trends, and remote system control from anywhere through secure web-based access.

Product Name	EPIC Plant Controller
Part Number	EPIC-M1
Storage	-20°F –160°F
Combined Power	24 -30V AC, 60Hz, 100mA



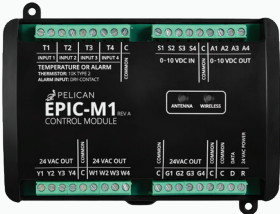
PURCHASE NOTE:
 The EPIC-M1 Plant Controller is a special order item and requires a Pelican Application Engineering project number for purchase. Contact your local Pelican distributor for pricing and Pelican for application engineering support and project configuration assistance.

EPIC ANTENNA SPECIFICATIONS



Sub-Base Antenna Connection	18/3G unshielded wire, 500 ft maximum length
Wireless Frequencies	2.4 GHz & 900 MHz Dual-Mesh Networking
Wireless Standards	IEEE 802.15.4
FCC Compliance	Class B part 15
DirectLink	BACnet MS/TP interface with auto-negotiating baud rate support.
Dimension	1.675 x 3.75 x 0.75-in (41.3 x 95.2 x 19 mm)
Mounting	Vertical, Flat Mount

EPIC SUB BASE SPECIFICATIONS



Wet Relay Outputs	Twelve (12) 24V AC @ 2A
VDC Outputs	Four (4) 0 – 10V DC
VDC Inputs	Four (4) 0 – 10V DC
Multi-Purpose Inputs	Four (4) 10K Type 2 Thermistor Sensor or Dry-Contact Status/Alarm Input
Thermistor Range	-20°F – 180°F
Dimensions	--
Mounting	Horizontal, Din rail or Flat Mount

CONNECTIVITY

Wireless Networking

- Integrates seamlessly with existing Pelican network infrastructure
- Supports dual wireless mesh networks: 2.4 GHz and 900 MHz
- Provides reliable short-range and long-range communication
- Dual-band operation improves coverage and network reliability across large or multi-building facilities

Web Connection

- Connects through Pelican's self-healing wireless mesh network
- Online monitoring and control through the Pelican Connect web application
- Real-time and historical trending
- Supports remote firmware updates

PLANT CONTROL COMPATIBILITY

Chiller Control

- Rotation and staging of up to 4 chillers*
- Isolation valve operation
- Minimum flow rate monitoring and engagement logic
- Discharge temperature sequencing with outside air or demand reset strategies
- Operates in correlation with HVAC equipment demand from the chilled water loop
- Circulation pump operation

Boiler Control

- Rotation and staging of up to 4 boilers*
- Isolation valve operation
- Minimum flow rate monitoring and engagement logic
- Discharge temperature sequencing with outside air or demand reset strategies
- Operates in correlation with HVAC equipment demand from the hot water loop
- Circulation pump operation

Cooling Tower Control

- Rotation and staging of up to 4 cooling towers*
- Spray pump operation
- Spray Pump operation
- Variable speed fan operation
- Discharge temperature sequencing and control

Pump Control

- Rotation and staging of up to 4 pumps*
- Variable bypass valve operation
- Variable pump control and operation
- Differential pressure monitoring and control
- Minimum flow rate monitoring and control
- Supports primary-variable and primary-secondary loop control strategies

*PLANT CONTROL CAPACITY NOTE

Individual controllers support operation of up to 4 stages per controller. Multiple EPIC controllers may be required to support larger plant applications and expanded system capacity.