Innovation on board

The PEAK™ Programmable and Configurable Controller family provides you with a comprehensive controls solution for a wide variety of HVAC/R equipment. These controllers are designed to provide direct, closed-loop control over mechanical and electrical HVAC/R equipment, either as standalone devices or as part of a larger, networked control system. You benefit from a rich set of embedded features, and you can obtain additional functionality simply by adding accessories.

You can program and commission them with a powerful and flexible tool that enables you to quickly build and deploy a quality control solution ideal for your individual application.

Features

- Real-time switchable communications protocols from BACnet® MS/TP, N2 or Modbus through the onboard local display or Mobile Access Portal gateway.

- Standard BACnet Protocol - provides interoperability with other Building Automation System (BAS) products that use the widely accepted BACnet standard.

- Standard hardware and software platform - uses a common hardware design throughout the family line to support standardized wiring practices and installation workflows. Also uses a common software design to support use of a single tool for control applications, commissioning, and troubleshooting to minimize technical training.

- Standard sensor/actuator bus and device level Modbus master bus port for interconnection with smart end-devices.

- Universal inputs, configurable outputs, and point expansion modules - allow multiple signal options to provide input/output flexibility.

- BACnet Testing Laboratories™ (BTL) listing Rev 12 - ensures interoperability with other BTL-listed devices. BTL is a third-party agency which validates that BAS vendor products meet the BACnet industry-standard protocol.

- 32-bit microprocessor ensures optimum performance and meets industry specifications.

- BACnet Automatic Discovery support enables easy controller integration into any BACnet BAS system.

- Real-time multi-language support of English, French, German and Spanish.

- Onboard real-time clock and schedules with BACnet calendar support.

- Patented proportional adaptive control (P-Adaptive) and Pattern Recognition Adaptive Control (PRAC) technologies reduce commissioning time, eliminate change-of-season recommissioning, and reduce wear and tear on mechanical devices.

- Configurable parameters and preconfigured trends. Factory programmed and commissioned. Application will be locked down in the field.

- Large product family provides a wide range of point mix to meet application requirements and allows for the addition of one or more IOMs and/or network sensors to provide even more I/O capacity.

- Support for Mobile Access Portal (MAP) gateway or Stationary Mobile Access Portal for ease of configuration and remote service tool.

- Onboard USB port for firmware upgrades and backup/restore of configuration of the controller.

PEAK 18/32 Series Point Type Counts Per Model

Point Types	Signals Accepted	PK-OEM1800	PK-OEM3200
Universal Input (UI)	Analog Input, Voltage Mode, 0–10 VDC Analog Input, Current Mode, 4 -20 mA	5	6
Binary Input (BI)	Dry Contact Maintained Mode Pulse Counter/Accumulator Mode (High Speed), 100 Hz	4	12
Binary Output (BO)	24 VAC and 240 VAC Triac	2	
Configurable Output (CO)	Analog Output, Voltage Mode, 0–10 VDC	3	4
Relay Output (RO)	2 double insulated SPST 2 SPST 240 VAC that do not require double insulated 1 SPDT 240 VAC relay that is separate from other circuits and double insulated		5
Relay Output (RO)	4 SPST 240 VAC	4	
Pulse Width Modulation	PWM 0 to 15 VDC at 10 ma max 100 HZ		1

PEAK family of controllers supporting the OEM HVAC/R market

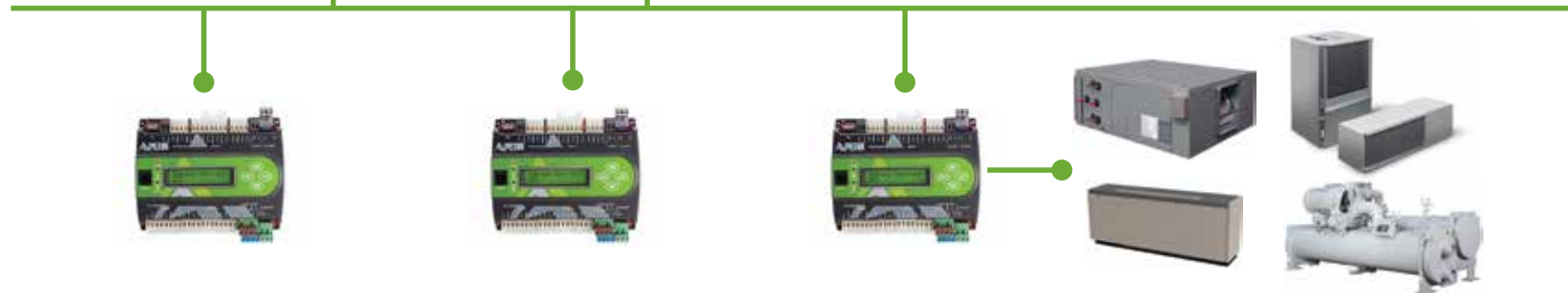**Building Automation Server/Engines**

MAP (Mobile Access Portal)

**Up to 100 devices.
One segment of BACnet MSTP**

PEAK 18/32 Series Ordering Information

Product Code	Description	Onboard Display/ Keypad	Supply Voltage	Approvals	Other Features
PK-OEM1810-0	24 Volts no Display, 5 UI, 4 BI, 2 BO, 4 RO, and 3 CO	No	24V	c UL us LISTED CE	· Real-time switchable BACnet MSTP, Modbus, and N2 networking
PK-OEM1811-0	240 Volts no Display, 5 UI, 4 BI, 2 BO, 4 RO, and 3 CO	No	240V	c UL us LISTED CE	· BTL-listed as Application Specific Controller (B-ASC) · Compatible with NS Network Sensors
PK-OEM1820-0	24 Volts with Display, 5 UI, 4 BI, 2 BO, 4 RO, and 3 CO	Yes	24V	c UL us LISTED CE	· Compatible with PK-IOM Expansion I/O Modules · Universal inputs, configurable outputs, and point expansion modules
PK-OEM1821-0	240 Volts with Display, 5 UI, 4 BI, 2 BO, 4 RO, and 3 CO	Yes	240V	c UL us LISTED CE	· Onboard USB port for firmware upgrades and backup/restore of configuration of the controller · 32-bit microprocessor ensures optimum performance and meets industry specifications
PK-OEM3210-0	24 Volts no Display, 6 UI, 12 BI, 4 BO, 5 RO, 4 CO, and 1 PWM	No	24V	c UL us LISTED CE	· Patented proportional adaptive control (P-Adaptive) and Pattern Recognition Adaptive Control (PRAC) technologies provide continuous loop tuning
PK-OEM3220-0	24 Volts with Display, 6 UI, 12 BI, 4 BO, 5 RO, 4 CO, and 1 PW	Yes	24V	c UL us LISTED CE	· Support for Mobile Access Portal gateway or Stationary Mobile Access Portal for ease of configuration and remote service tool

Your world just got a lot bigger.