

BAC-5000 BACstage™ Operator Workstation

BACstage Operator Workstation from KMC Controls is a basic software tool with which you can program KMC BACnet controllers for a building automation system.

- Worksheet style entry and drop-down list boxes makes programming quick and easy.
- Password protected
- Quickly create graphical user interfaces with easy to use drag and drop group displays.

Easy Programming

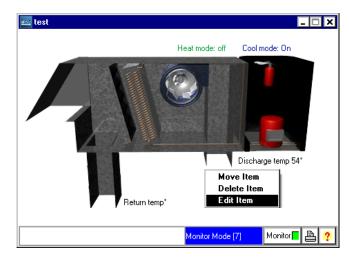
- Required for full access to features in KMC BACnet controllers starting with firmware releases 1.7.
- Configure KMC Controls BACnet devices with MAC addresses, device instance numbers and baud rate.
- ◆ Configure objects in third-party controllers.
- Configure standard BACnet objects in controllers.
- ◆ Identify inputs, outputs, and other functions with easy to remember names and descriptions.
- Assign standard device types for both analog and digital objects.
- Full control over built-in PID control loop routines.
- Write, compile and send building automation programs with the BACnet Control Basic editor
- Automatically synchronize system time to computer time.
- Save configuration files to disk.
- Prepare configuration files off-line with the simulator mode.



Custom group displays

Design and construct operator friendly graphic interfaces with BACstage group displays. Use the extensive KMC Controls graphic libraries to build custom graphics for chillers, boilers, roof top units, air handlers and more.

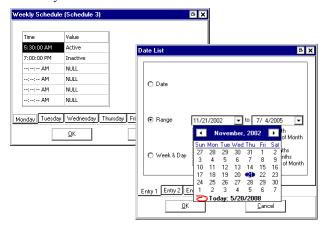
- Add motion to displays with animation files
- Easily drag-and-drop links to other group displays or object properties on the display.
- ◆ Add links from site or floor plans to critical equipment or control points.
- Use graphics from any program that generates bmp, jpg, gif, wmf or emf file types.



Scheduling

Schedule special holidays, maintenance schedules and special days

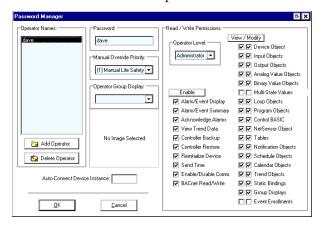
- Program BACnet schedule objects in individual controllers for recurring daily activities.
- Create special days such as holidays in the controller's calendar objects that override the weekly schedules.



Security

BACstage security locks out tampering and still permits authorized operators to make system changes.

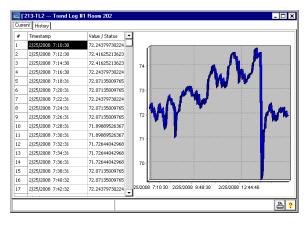
- By-name, password protection prevents unauthorized access
- ◆ Logs operator sign-in, sign-out and other significant operator action.
- ◆ Choose from four preset levels or create a custom level for each operator



Data logging

Use BACstage to retrieve and display temperature, humidity or any performance data stored in each controller.

- ◆ Verify actual system performance
- Capture equipment duty cycle
- View trend objects from any controller
- Display data as graphs or text.
- Retrieve and save logs for analysis in programs such as Microsoft[®] Excel.



Connectivity

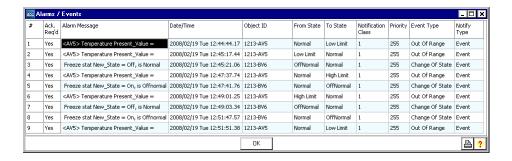
Supports the following internetwork connection methods:

- ◆ MS/TP
- ♦ Ethernet 8802-3
- ◆ Ethernet IP
- Register as foreign device to a BBMD (BACnet broadcast management device)
- ◆ PTP including modem

Manage alarms

Setting up alarms and events with BACstage keeps you informed of critical operating conditions.

- Program, view and acknowledge alarms.
- Manage recipient lists in notification class objects.
- ◆ View an alarm summary for each device.
- Custom alarm messages.
- Audible notification of incoming alarms.



Ordering information

Each copy of BACstage is licensed to end-users for use on one computer at a time. Order a hardware license key for each copy of BACstage. The hardware license key requires a dedicated USB port. See next page for computer system requirements.

Model number	Ordering description
HW-KEY	KMC Controls Hardware License Key
BAC-5000	BACstage Operator Workstation

Computer system requirements

BACstage requires a computer that meets the following specifications.

Windows® 7

Component	Requirements
Operating system	Windows 7 Professional (32-bit) or Windows 7 Ultimate (32-bit)
Processor speed	2 GHz or faster
RAM memory	2 GB
Graphics adaptor	DirectX 9 graphics processor

Windows® Vista

Component	Requirements
Operating system	Windows Vista Business (32-bit) or Windows Vista Ultimate (32-bit)
Processor speed	2 GHz or faster
RAM memory	3 GB

Windows® XP Professional or Windows® 2000

Component	Recommended	Minimum
Operating system	Windows XP (32-bit)	Windows 2000 (32-bit)
Processor	Pentium 4 or bettter	Pentium III
Processor speed	2 GHz or faster	1 GHz
RAM memory	2 GB or greater	512 megabytes RAM or greater

Computer platform requirements

Component	Recommended	Minimum
Hard disk space	160 GB	80 GB
	5 GB free	5 GB free
Monitor	SVGA 1280 x 1024	SVGA 1024 x 768
Optical drive	CD/DVD-RW	CD-ROM
Network connection	Ethernet 100BaseT	Ethernet 10BaseT
MS/TP connection	Serial or USB port with KMD–5579 or third party EIA–485 converter.	Serial or USB port with KMD-5579 or third party EIA-485 converter.
Sound output and speakers	Required for audible alarm notification	
License key	USB port dedicated to hardware key	

KMC Controls, Inc. 19476 Industrial Drive New Paris, IN 46553 574.831.5250 www.kmccontrols.com info@kmccontrols.com