KMC Conquest™ Selection Guide

Controllers, Sensors, and Accessories







APPLICATIONS AND MODELS

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APPLICATIONS	MODELS*
AHU (Air Handler Unit)	**BAC-5901AC(E)(F)**, **BAC-93x1A(C)(E)(F)**, and **BAC-19xx36**
Airflow measurement	**BAC-5901AC(E)(F)-AFMS**, **BAC-9311A(C)(E)(F)-AFMS**
Boiler	**BAC-5901AC(E)(F)**
CAV (Constant Air Volume)	**BAC-90x1A(C)(E)(F)**, **BAC-9311A(C)(E)(F)**, and **STE-9xx1**
Chiller	**BAC-5901AC(E)(F)**
Chilled beam	**BAC-5901AC(E)(F)**, **BAC-9301A(C)(E)(F)**, and **STE-9x21**
Cooling tower	**BAC-5901AC(E)(F)**
DCV (Demand-Control Ventilation)	**STE-93x1/95x1** with any **BAC-59xxA** or **BAC-9xxxA** controller, **BAC-193xxx**, and **BAC-195xxx**
FCU (Fan Coil Unit)	**BAC-9301A(C)(E)(F)**, **STE-9xx1**, and **BAC-19xx63**
HPU (Heat Pump Unit)	**BAC-9301A(C)(E)(F)**, **BAC-5901AC(E)(F)**, **STE-9xx1**, **BAC-19xx63**
Humidity control	**STE-9x21**, **BAC-5901AC(E)(F)**, **BAC-9301A(C)(E)(F)**, and **BAC-19x2xx**

APPLICATIONS	MODELS*
HVAC, Other	**BAC-5901AC(E)(F)**
Lighting	**STE-92x1/95x1** and **BAC-5901AC(E)(F)**
Occupancy control	**STE-92x1/95x1** with an **BAC-59xxA** or **BAC-9xxxA** controller, **BAC-192xxx**, and **BAC-195xxx**
Pump	**BAC-5901AC(E)(F)**
RTU (Roof Top Unit)	**BAC-5901AC(E)(F)**, **BAC-9301AC(E)(F)**, **STE-9xx1**, **BAC-19xx63**
Static pressure monitoring/ control (RTU/HPU)	**BAC-9311A(C)(E)(F)**
Supply/exhaust tracking	**BAC-9001A(C)(E)(F)**, **TSP-8003**, and **STE-9xx1**
Unit ventilator	**BAC-5901AC(E)(F)**, **BAC-9301A(CE)(F)**, **STE-9xx1**, and **BAC-19xx36**
VAV (Variable Air Volume)	**BAC-90x1A(CE)(F)**, **BAC-9311A(C)(E)(F)**, **TSP-8003**, and **STE-9xx1**
Ventilation control	**STE-93x1/95x1** with any **BAC-59xxA** or **BAC-9xxxA** controller, **BAC-193xxx**, and **BAC-195xxx**

*The most typical models are shown for an application. The controllers are fully programmable, and a controller with sufficient inputs and outputs can be adapted to the application. See **Setup Tools (Configuring, Programming, and Designing) on page 10**. See also **Accessories on page 8**.

AIRFLOW MEASUREMENT SYSTEM CONTROLLERS (B-BC)

<table>
<tr><th rowspan="2">MODEL</th><th rowspan="2">APPLICATIONS</th><th rowspan="2">INPUTS</th><th rowspan="2">OUTPUTS</th><th colspan="5">FEATURES</th></tr>
<tr><th>Custom-izable</th><th>Pressure Sensing</th><th>Real Time Clock</th><th>Network</th><th>Airflow Measurement Programming</th></tr>
<tr><td>BAC-5901AC-AFMS</td><td rowspan="6">RTU
AHU
unit ventilator</td><td rowspan="3">10 total:
• 2 analog (room sensor port)
• 8 universal inputs (software configurable as analog, binary, or accumulator on terminals)</td><td rowspan="3">8 universal:
• Software configurable as analog or binary
• Override boards give additional options</td><td rowspan="3">✓</td><td rowspan="3">External</td><td rowspan="6">✓</td><td>MS/TP</td><td rowspan="3">Standard airflow measurement application, plus a pressure assist application option</td></tr>
<tr><td>BAC-5901ACE-AFMS</td><td>Ethernet</td></tr>
<tr><td>BAC-5901ACEF-AFMS</td><td>Failover Ethernet</td></tr>
<tr><td>BAC-9311AC-AFMS</td><td rowspan="3">1 air pressure sensor and 8 (total) standard:
• 2 analog (room sensor port)
• 6 universal inputs (software configurable as analog, binary, or accumulator on terminals)</td><td rowspan="3">10 total:
• 6 triacs (binary)
• 4 universal (software configurable as analog or binary)</td><td rowspan="3">Integrated</td><td>MS/TP</td><td rowspan="3">Standard airflow measurement application</td></tr>
<tr><td>BAC-9311ACE-AFMS</td><td>Ethernet</td></tr>
<tr><td>BAC-9311ACEF-AFMS</td><td>Failover Ethernet</td></tr>
</table>

The KMC Conquest Airflow Measurement System (AFMS) reliably provides accurate outside, return, and supply airflow data for monitoring and control. It delivers accurate, repeatable results on any type of equipment, without the traditionally expected mechanical limitations, performance issues, or ongoing maintenance issues.

The complete system consists of the following components, installed on an AHU, RTU, or unit ventilator:

- 1 controller with airflow measurement programming [BAC-9311C(E)-AFMS or BAC-5901C(E)-AFMS]
- 1 inclinometer (included with the controller) mounted on an outside air damper blade
- At least 2 pressure flow pickup tubes (SSS-1000 Series) installed in a pitot array on the supply air duct, or on the fan inlet
- If a BAC-5901C(E)-AFMS is used, 1 pressure transducer (TPE-14750-21)
- If pressure assist measurements are needed (for units with changing pressure in mixed and/or return air sections), 1 additional pressure transducer (TPE-14750-21), connected to 2 additional pressure flow pickup tubes (SSS-1000 Series), mounted on both sides of the outside air damper.
- 3 temperature sensors (STE-1400 Series) for outside, mixed, and return air
- 1 proportional actuator, mounted on the damper shaft

For more information, see the AFMS documentation.



BAC-190000 SERIES FLEXSTAT ROOM SENSORS/CONTROLLERS (B-AAC)

MODELS, APPLICATIONS, OUTPUTS*		6 TERMINAL INPUTS, UP TO 4 INTEGRATED SENSORS**				NETWORK CONNECTION	
FCU, HPU, RTU	**AHU, Unit Ventilator**					Ethernet Port	MS/TP Port
6 Relays and 3 Analog/Universal Outputs	3 Relays and 6 Analog/Universal Outputs	Temp	Humidity	Motion	CO_2		
BAC-190063CEW***	BAC-190036CEW	✓				✓	
BAC-190063CW	BAC-190036CW						✓
BAC-190263CEW	BAC-190236CEW		✓			✓	
BAC-190263CW	BAC-190236CW						✓
BAC-192063CEW	BAC-192036CEW			✓		✓	
BAC-192063CW	BAC-192036CW						✓
BAC-192263CEW	BAC-192236CEW		✓	✓		✓	
BAC-192263CW	BAC-192236CW						✓
BAC-193263CEW	BAC-193236CEW		✓		✓	✓	
BAC-193263CW	BAC-193236CW						✓
BAC-195263CEW	BAC-195236CEW		✓	✓	✓	✓	
BAC-195263CW	BAC-195236CW						✓

*NOTE: Applications and options are dependent on the model.

**NOTE: Terminals are provided for six external inputs in addition to the (standard) temperature and up to three additional sensors.

***NOTE: All models are white ("W") and contain a hardware Real Time Clock ("C").

BAC-190000 series FlexStats are wall-mounted, touchscreen, combined sensors and controllers. The intelligent integral temperature/humidity/motion/CO_2-sensing, wall-mounted thermostats simplify networked zone control for common HVAC equipment, which can be controlled via the on-board or custom libraries of programs. FlexStats have built-in, configurable applications to be used with the following types of equipment:

BAC-19xx**36**C models (3 relays, 6 analog/universal outputs):

- Air Handling Units
- Unit Ventilators (4-Pipe)

BAC-19xx**63**C models (6 relays, 3 analog/universal outputs):

- Fan Coil Units (2- and 4-Pipe)
- Heat Pump Units
- Roof Top Units

These applications can be configured from the touchscreen without using any software. Additional customization and applications beyond the standard library can be created using software. (See **Setup Tools (Configuring, Programming, and Designing) on page 10**.) Some applications require custom programming in the controller.

The following configuration methods are ***not*** available for FlexStats:

- KMC Connect Lite app
- STE-9xxxx NetSensors
- Built-in web pages

For more information, see the **BAC-190000 Series** and **BAC-190000-ZEC Series** product pages and documents. See also **Accessories on page 8**.



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BAC-5900A SERIES BACNET BUILDING CONTROLLERS (B-BC)

APPLICATIONS	INPUTS*	OUTPUTS*	FEATURES			MODEL
			Real Time Clock (RTC)	Ethernet Port	Network	
AHU, chillers, boilers, cooling towers, pumps, lighting, FCU, HPU, RTU, unit ventilators, other HVAC	10 total: • 2 analog (temperature sensor port) • 8 universal inputs (software configurable as analog, binary, or accumulator on terminals)	8 universal: • Software configurable as analog or binary • Override boards provide additional options**	✓		MS/TP	**BAC-5901AC**
				✓	Ethernet	**BAC-5901ACE**
				✓	Failover Ethernet	**BAC-5901ACEF**

*Up to four CAN-5900 series expansion modules can be used with BAC-5900 series controllers to provide up to 74 physical (Room Sensor port and terminal block) inputs and up to 40 outputs.

**HPO-6700 series output override board series provide (triac, NC/NO relays, 4–20 mA, adjustable 0–10 VDC) options for devices that cannot be powered from a standard universal output. These override boards can also be used with the CAN-5901 expansion module.

The general purpose BACnet Building Controller (B-BC) can be used with the following types of equipment:

- Air handling units
- Boilers
- Chilled beams
- Chillers
- Cooling towers
- Fan coil units
- Heat pump units
- Pumps
- Roof top units
- Unit ventilators
- Other HVAC and building automation system equipment*

***NOTE:** Requires custom programming in the controller. For more information, see the **BAC-5900 Series** product page. See also **Accessories on page 8**.



CAN-5900 SERIES I/O EXPANSION MODULES

APPLICATIONS	INPUTS	OUTPUTS*	MODEL
Input/Output Expansion	8 universal (software configurable as analog, binary, or accumulator)	8 universal • Software configurable as analog or binary • Override boards give additional options**	CAN-5901
Input Expansion	16 universal (software configurable as analog, binary, or accumulator)	None	CAN-5902

*Up to four CAN-5900 series expansion modules can be used with BAC-5900 series controllers to provide up to 74 physical (Room Sensor port and terminal block) inputs and up to 40 outputs.

**HPO-6700 series output override board series provide (triac, NC/NO relays, 4–20 mA, adjustable 0–10 VDC) options for devices that cannot be powered from a standard universal output. The boards can also be used with the CAN-5901.

For applications, see the BAC-5900 series section above. See also the **CAN-5900 Series I/O Expansion Modules** product pages.





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BAC-9000A SERIES VAV CONTROLLER-ACTUATORS (B-BC)

APPLICATIONS	INPUTS	OUTPUTS	FEATURES				MODEL
			Air Pressure Sensor	Real Time Clock	Ethernet Port	Network	
Pressure-**independent** VAV, cooling/heating with fan and reheat; CAV	8 total: • 1 internal actuator position feedback • 1 integrated air pressure sensor (except BAC-9021) • 2 analog (temperature sensor port) • 4 software-configurable universal inputs (terminals)	9 total: • 2 internal triacs (actuator motor control) • 4 external triacs (terminals) • 3 universal outputs (0–12 VDC on terminals)	✓	✓	✓	MS/TP	**BAC-9001A**
						Ethernet	**BAC-9001ACE**
						Failover Ethernet	**BAC-9001ACEF**

VAV application options for these controllers include:

- Pressure independent or dependent VAV
- Cooling only and with changeover
- Staged, modulated, floating, or time-proportional reheat
- Series or parallel fan control
- Dual duct (with TSP-8003 actuators, see below)
- Supply/exhaust tracking (with TSP-8003 actuators)
- CAV (Constant Air Volume)

For installations with a BACnet building automation system, these easily integrated controllers signal demands for higher static duct pressure, cooler or warmer supply air, and other diagnostics for AHU optimization. For more information, see the **BAC-9000A Series** product page. See also **Accessories on page 8**.



TSP-8003 (DUAL DUCT) TRI-STATE ACTUATOR WITH PRESSURE SENSOR

The TSP-8003 is a 40 in-lb. tri-state actuator with a differential air pressure sensor, typically used in Conquest VAV dual-duct applications as a secondary actuator. The TSP-8003 connects directly to a BAC-9001 VAV controller-actuator for easy installation. Application options include:

- Dual duct VAV or CAV
- Bypass damper*
- Economizer damper*
- Building pressure control damper*
- Supply/exhaust tracking*

***NOTE:** Requires custom programming in the controller.

For more information, see the **TSP-8003** product page.



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BAC-9300A SERIES UNITARY CONTROLLERS (B-BC)

APPLICATIONS	INPUTS	OUTPUTS	FEATURES			MODEL
			Air Pressure Sensor (Input)	Real Time Clock (RTC)	Network	
RTU, HPU, FCU, AHU, and unit ventilator VAV/CAV (with external tri-state actuator), RTU/ HPU static pressure monitoring/control	1 opt. air pressure sensor and 8 (total) standard: • 2 analog (temp. sensor port) • 6 universal inputs (software configurable as analog, binary, or accumulator on terminals)	10 total: • 6 triacs (binary) • 4 universal (software configurable as analog or binary)			MS/TP	**BAC-9301A**
				✓	MS/TP	**BAC-9301AC**
				✓	Ethernet	**BAC-9301ACE**
				✓	Failover Ethernet	**BAC-9301ACEF**
			✓		MS/TP	**BAC-9311A**
			✓	✓	MS/TP	**BAC-9311AC**
			✓	✓	Ethernet	**BAC-9311ACE**
			✓	✓	Failover Ethernet	**BAC-9311ACEF**

These controllers can be used with the following equipment:

- Air handling units
- CAV or VAV with external actuator
- Chilled beams*
- Fan coil units
- Heat pump units
- Roof top units
- Unit ventilators



For more information, see the **BAC-9300A Series** product page.
See also **Accessories on page 8**.

***NOTE:** Requires custom programming in the controller.

Feedback? Give yours **here**.

STE-9000 SERIES NETSENSORS (DIGITAL ROOM SENSORS)

APPLICATIONS: TEMPERATURE CONTROL PLUS...	INTEGRATED SENSORS*					MODEL**
	Temp.	Humidity	Motion	CO_2	Display	
Temperature control only	✓				✓	STE-9001W
Temperature control only						STE-9001W-NDL
Humidity control for dehumidification/humidification		✓			✓	STE-9021W
Humidity control for dehumidification/humidification		✓				STE-9021W-NDL
Enhanced occupancy-based control (lighting/setback/self-learning)			✓		✓	STE-9201W
Humidity and occupancy control		✓	✓		✓	STE-9221W
DCV (Demand-Control Ventilation)				✓	✓	STE-9301W
DCV (Demand-Control Ventilation)				✓		STE-9301W-NDL
Humidity and ventilation control		✓		✓	✓	STE-9321W
Humidity and ventilation control		✓		✓		STE-9321W-NDL
Occupancy and ventilation control			✓	✓	✓	STE-9501W
Humidity, occupancy, and ventilation control		✓	✓	✓	✓	STE-9521W

*All units have a temperature sensor (standard). See above for additional sensor options.

**A W at the end of the model number indicates a white case. To order the sensor with light almond color (for models with a display only) instead of white, drop the W on the end of the model number (e.g., STE-9001W is white and STE-9001 is light almond).

KMC Conquest™ STE-9000 series NetSensors are wall-mounted digital space temperature sensors designed for use with KMC BAC-5900/9000/9300 series controllers. Key features include the following:

- Up to four sensors in a single package minimizes labor, wiring, and wall space, while optional humidity, motion, and CO_2 sensors allow expanded energy-efficient control of humidity, temperature setback, lighting, and ventilation
- A user-friendly three-button integrated operator interface (on models with a display, i.e. **non**-NDL models) provides system and IAQ monitoring and adjusting for occupants.
- It installs permanently as a room sensor or (for models with a display) temporarily as a service tool; as a service tool, it commissions controllers without software, configures communication and application settings, and balances VAV air flow
- An HPO-9001 NetSensor® distribution module allows up to eight STE-9000 series NetSensors to be linked to one controller or allows one **STE-6010/6014/6017** analog temperature sensor to be connected with up to seven NetSensors

For more information, see the **STE-9000 Series** product page.

NOTE: STE-6010/6014/6017 analog temperature sensors can be connected to a controller in the place of an STE-9001W after the connected controller is configured. See **Accessories on page 8**.



STE-9221W
Temperature/Humidity/Motion Sensing
with Full Control/Configuration



STE-9xx1W-NDL
(no display) models



STE-6017W10
Temperature Sensing (Only)
with Setpoint Dial and Override Button

Feedback? Give yours **here**.

ACCESSORIES

NOTE: For accessory details, see the respective product data sheets and installation guides. See also **Setup Tools (Configuring, Programming, and Designing) on page 10** and **IoT Interface Platform on page 10**.

Actuators

NOTE: See also the selection chart in the Connecting a Remote Actuator to a BAC-9311 section of the **KMC Conquest Controller Application Guide**.

MEP-4xxx Actuators, 25 to 90 in-lb., fail-safe and non-fail-safe

MEP-7xxx Actuators, 180 and 320 in-lb., fail-safe and non-fail-safe



TSP-8003 Dual duct actuator (for BAC-9001)—see **TSP-8003 (Dual Duct) Tri-State Actuator with Pressure Sensor on page 5**

Misc. Hardware

CAN-590x Expansion modules—see **CAN-5900 Series I/O Expansion Modules on page 4**

HCO-1103 Steel control enclosure with integrated DIN rail, 10-1/8 x 2-5/8 x 7-19/32 inches (257 x 67 x 193 mm)



HPO-0055 Replacement network bulb assembly (pack of 5)



HPO-0063 Replacement output jumper, 2-pin (pack of 5)



HPO-9901 Controller replacement parts kit with terminal blocks (1 gray, 1 black, 2 green 3-terminal, 4 green 4-terminal, 2 green 5-terminal, 2 green 6-terminal) and DIN clips (2 small for router and 1 large for controllers)



SP-001 Screwdriver (KMC branded) with a hex end (for STE-9000 series cover screws) and a flat blade end (for controller terminal screws)



Network and Sensor Connections

BAC-5051AE BACnet IP, dual Ethernet, and single port MS/TP router



HPO-5551 Router technician cable kit for BAC-5051E router



HPO-9003 NFC Bluetooth/USB module (fob) for KMC Connect Lite app



HPO-9008 Ethernet to Wi-Fi network adapter kit



HSO-9001 Ethernet cable, 50 feet

HSO-9011 Ethernet cable, 50 feet, plenum rated



HSO-9012 Ethernet cable, 75 feet, plenum rated

KMD-5567 Network surge suppressor



XEE-9008 Replacement 24-VAC to 5-VDC power supply for HPO-9008 kit



Output Override Boards (for BAC/CAN-5901)

HPO-6701 Triac output w/ zerocross switching (AC only)

HPO-6702 0–10 VDC analog with adjustable override potentiometer

HPO-6703 Relay, NO contacts (AC/DC)

HPO-6704 4–20 mA DC current loop with adjustable override potentiometer



HPO-6705 Relay, NC contacts (AC/DC)

Sensors, Analog Room (with Modular Jack)

STE-6010W10 Temperature sensor, white

STE-6014W10 Sensor with rotary setpoint dial, white

STE-6017W10 Sensor with rotary setpoint dial and override button, white



HPO-9005 Room sensor adapter allows the use of other sensors and optional setpoint potentiometers (with wire leads or terminal blocks) to be used instead of STE-601x sensor models with modular jacks



Feedback? Give yours **here**.

HMO-6036W Wall plate, white (or order **HMO-6036** for light almond), allows STE-6000 series mounting to 2 x 4 inch electrical boxes



NOTE: To order the STE-601x sensor with **light almond color** instead of white, **replace the W on the end of the model number with a hyphen** (e.g., STE-6010W10 is white and STE-6010-10 is light almond).

NOTE: Other STE-6000 series sensors are not fully compatible with the dedicated sensor port. However, various other models can be used with an HPO-9005 adapter or with the controller screw terminals. See the STE-6000 series data sheet for more information.

NOTE: For information about digital sensors (with LCD displays), see the **STE-9000 Series NetSensors (Digital Room Sensors) on page 7**.

Sensors, Differential Air Pressure

SSS-1012 Sensor, 3-5/32 inches (80 mm) length

SSS-1013 Sensor, 5-13/32 in. (137 mm) length

SSS-1014 Sensor, 7-21/32 in. (194 mm) length



SSS-1015 Sensor, 9-29/32 in. (252 mm) length

Sensors, Digital Room (LCD Display)

HMO-10000W White (or order HMO-10000 for light almond) mounting plate, allows STE-9000 series mounting to horizontal 2 x 4 or 4 x 4 inch electrical boxes



HPO-0044 Replacement cover hex screw



HPO-9001 NetSensor distribution module



HPO-9002 Foam insulating gasket (mounts between the black backplate and the electrical box) for STE-9xx1 NetSensor and STE-8×01 AppStat



STE-9000 Series* NetSensor digital room temperature sensors for viewing and configuration** and optional humidity, occupancy, and CO_2 sensing—see **STE-9000 Series NetSensors (Digital Room Sensors) on page 7**





* Models **without** the NDL suffix have LCD displays.

**Because NDL models do not have a display or buttons, they cannot be used for viewing and configuration, but still function as a sensor.

Sensors, Miscellaneous Temperature

STE-1405 DAT sensor with plenum-rated cable

STE-1451 OAT sensor



Transformers, 120 to 24 VAC

XEE-6111-050 50 VA, single-hub

XEE-6112-050 50 VA, dual-hub



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SETUP TOOLS (CONFIGURING, PROGRAMMING, AND DESIGNING)

SETUP PROCESS			KMC CONTROLS TOOL
Configuration	Programming (Control Basic)	Web Page Graphics*	
✓			Internal configuration web pages in Ethernet "E" models**
✓			**KMC Conquest STE-9000 series NetSensors** (with display)
✓			**KMC Connect Lite**™ NFC mobile app***
✓	✓		**KMC Connect**™ software
✓	✓	✓	**TotalControl**™ software
✓	✓		**KMC Converge**™ module for Niagara Workbench
		✓	**KMC Converge GFX** module for Niagara Workbench
		✓	**KMC Commander**® IoT Interface Platform****

*Custom graphical user-interface web pages can be hosted on a remote web server, but not in the controller.

Ethernet-enabled "E" models (BAC-5901ACE, BAC-9001ACE, BAC-9301ACE, and BAC-9311ACE) with the latest firmware can be configured with an HTML5-compatible web browser from pages served from within the controllers. For more information, see the **Conquest Ethernet Controller Configuration Web Pages Application Guide.

***Near Field Communication via enabled smart phone or tablet running the KMC Connect Lite app.

****KMC Commander's web interface shows "cards" for monitoring and control, trends, alarms, and schedules. For more information, see **IoT Interface Platform on page 10**

IOT INTERFACE PLATFORM

KMC Commander is a next-generation IoT (Internet of Things) solution that connects your building and other devices to the cloud and provides meaningful data in real-time to your PC or mobile device. The KMC Commander platform consists of Dell Edge Gateway 3002 or Advantech UNO-420 hardware plus KMC IoT software and cloud services. It is an out-of-the-box solution to visualize, connect, and manage energy, building, and other systems. It not only works with KMC Conquest controllers, but also most third-party meters and many other energy and automation devices. It is designed to aggregate, analyze, secure, and relay data from diverse sensors and equipment... and communicate the analytics and visualizations to your mobile device. From a mobile device in the palm of your hand, you can analyze and act on data at the edge of the network with this IoT platform, purpose-built for building and industrial automation.



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SUPPORT

Additional resources for installation, configuration, application, operation, programming, upgrading, and much more are available on the web at **www.kmccontrols.com**. Log in to see all available files.

See also **KMC videos on YouTube**.

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