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Digital Sensors and Accessories Catalog Supplement

Important Navigation Tips!

In this catalog, the following items have **blue hyperlinks** to their referred pages (click on a hyperlink to go to that page):

- **Contents** (lines)—the table of contents lists products alphabetically by application.
- **Index** (page numbers)—all cataloged KMC Controls model/part numbers as well as various topics are listed alphabetically.
- **Cross-references** (bold italicized blue text) to other pages in this document (See and See Also).
- **Hyperlinked references** (bold blue text) to KMC Controls web pages.

Bookmarks (another form of hyperlinks) in the left panel of the screen also offer easy navigation to the relevant sections:

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- If bookmarks are not visible, select View > Navigation Panels > Bookmarks.

Search (Ctrl key + F if the search field is not visible) can find all appearances of entered text.





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Introduction

About this Catalog

This SP-090 Digital Sensors and Accessories Catalog Supplement supplements the information in the much larger **SP-071 KMC Controls Catalog (with Electronic and Pneumatic Controls)**. See that catalog for information about KMC terms, conditions of sale, warranty, and returns. That catalog also contains various input and output devices for the digital controllers. Our analog electronic line includes actuators, relays, sensors, switches, thermostats, transducers, transformers, transmitters, valves, and accessories that are used with, not only our older analog electronic controllers, but also the latest digital controllers.



For even more details about KMC products, see the product data sheets on the KMC Controls web site.

For more information about:

- **BACnet products**, see the BACnet Catalog Supplement (SP-092).
- **FlexStat selection and accessories**, see the FlexStat Catalog Supplement and Selection Guide (SP-091)
- **KMDigital products**, see the KMDigital Catalog Supplement (SP-093)

These files are available as Acrobat PDF downloads from the KMC web site.

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Products in this Catalog

We manufacture exclusively within the United States of America. This includes our pneumatic, analog electronic, and DDC (direct digital control) products and related software with the exception of those listed on our web site. The vast majority of our manufacturing takes place at our corporate headquarters in Indiana. Some pneumatic products are assembled in Virginia from components produced in Indiana. (See more on <http://www.kmccontrols.com/products/ARRAFunding.aspx>.)



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Our manufacturing includes circuit board assembly, injection molding of components and cases, and electronic assembly, mechanical assembly, and final product assembly. A 5-minute video, available on the KMC web site (<http://www.kmccontrols.com/default.aspx?id=american>), provides some visual insight into some aspects of our production processes.

As a convenience to our customers, KMC Controls supplies some products on a “pass-through” arrangement from other manufacturers. We cannot claim Buy American conformance or non-conformance for such catalog products.

Although every effort is made to make the information in this catalog accurate, not all models listed may be available. KMC reserves the right to discontinue models at any time or change specifications or designs without notice and without incurring obligation. KMC further reserves the right to substitute a similar device for a device not in stock or no longer sold by the company.



About KMC Controls

KMC Controls (formerly Kreuter Manufacturing Company) has been designing and manufacturing building automation solutions, HVAC control products, and energy management solutions since 1969. KMC remains the only privately held US controls manufacturer with a full line of digital, electronic, and pneumatic products.

KMC is dedicated to developing and maintaining controlled processes to competitively service our world-wide customer base, with building control products that meet government regulations, international standards, and customers requirements. KMC has an ISO 9001:2008 registered quality system in place. We meet the highest quality standards and can still quickly make changes dictated by the needs of the market. Our quality and quick response have led to reliable production of a complete line of pneumatic, analog electronic, and digital controls.

KMC maintains regional sales offices throughout the U.S. and distributes its solutions and products through value-added, authorized installing contractors, wholesalers, and OEMs throughout North America as well as authorized distributors worldwide.

KMC's intellectual property includes dozens of patents, but even the very best widgets would be worthless without proper support. Our customer service representatives excel at establishing personal relationships with their assigned customers. They know our product lines, have real-time inventory information at their fingertips, and can advise on product cross-reference information as well as all shipping options. The responsiveness of our team is unsurpassed, and they are available via toll-free telephone/fax and email.

For technical support, authorized installing contractors have unlimited free access to our knowledgeable team of technical support representatives from 8 AM to 8 PM (Eastern Standard Time) every business day. Our representatives are experienced in field operations, are fully trained in KMC product lines, have a wealth of product and system information available to them, and have ready access to design and software engineers as needed.

Multiple ways of communicating with the company are:

Address (Mailing/Shipping)

KMC Controls
19476 Industrial Drive
New Paris, Indiana 46553, U.S.A.

Toll-free Sales

Telephone 866.302.4KMC (4562)
FAX 800.276.5555

Internet

kmcccontrols.com
facebook.com/KMCControls
linkedin.com/company/kmc-controls
twitter.com/kmcccontrols
youtube.com/kmcccontrols
info@kmcccontrols.com



Web Site and Publications

The purpose of the award-winning www.kmcccontrols.com is to support our valued customers and partners in KMC-related endeavors. The web site is divided into two parts, a public site and a partner site.

To get the most information and functionality, access the partner site using your user name and password. (Your log-in determines what information is available to you.) The "My Account" page lets you access a variety of personal services.



Most product information is available through the "Products" button or the Product Search field. In the Products section, our product line has been organized into major product categories and subcategories. Follow these branches to find specific products. You may also enter model numbers or key words into the search box for immediate access to the specific product you seek. While the public can view basic product information, product pricing and other associated information requires a registered user name and password.

The "Downloads" button offers access to numerous files that are organized into different categories. You can also download groups of files by checking the boxes next to them.

Besides product data, you can also find information about KMC as a company, contacts, training, sales tools, upcoming events, press releases, and other information.

We are constantly striving to improve the quality of the information we provide. This quest for quality is reflected in the web site and a number of our publications having **won many awards for publication excellence in recent years.**



SEE ALSO: The interactive [KMC Desktop](#) in the Products section of the [KMC partner web site](#) for quick and easy downloading of brochures, data sheets, installation guides, and other information.

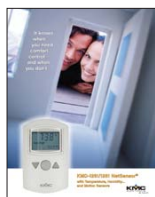


Brochures and Reference Materials

General Information



**SB-057 KMC
Sensors Brochure**



**SB-056 KMD-1261/1281
NetSensors Brochure**



**SB-047 TotalControl
Brochure**



= Award Winner



= New or Updated
in 2010–2012



**SP-022 Digital
Designer's Guide***



**SP-071 Catalog
(Electronic and
Pneumatic Controls)***

SEE ALSO: For more general, pneumatic, and electronic product promotional products, see the **SP-071 KMC Controls Catalog (with Electronic and Pneumatic Controls)**.

SEE ALSO: BACnet Catalog Supplement (SP-092) and KMDigital Catalog Supplement (SP-093) are available on the KMC web site as downloadable PDFs (only).

*NOTE: Brochures have "SB-" part number prefixes. Catalogs and the Digital Designer's Guide have SP numbers, not SB.

BACnet Products



**SP-091 FlexStat
Catalog Supplement
and Selection Guide**



**SB-049 FlexStat
Brochure**



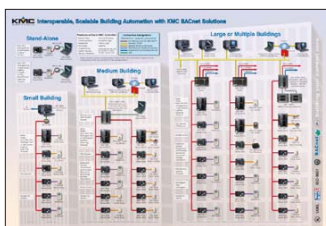
**SB-002 BAC-5050
FullBAC Router Brochure**



**SB-003 BAC-5801/5802
AAC Brochure**



**SB-005 BAC-7000 Series
AAC VAV Brochure**



**SB-045 Interoperable, Scalable
Building Automation with KMC
BACnet Solutions POSTER**

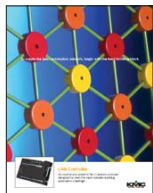


**SB-008 Native BACnet
Building Automation
Solutions BROCHURE****

**NOTE: The 8-page SB-008 brochure provides an overview of all BACnet products. It replaced the earlier SB-044 BACnet BAS brochure. It also replaces the other, older, product-specific brochures that are being phased out as their inventory runs out.



KMDigital Products



**SB-012 KMD-5210
LAN Controller Brochure**



**SB-013 KMD-5801/5802
Controllers Brochure**



**SB-015 KMD-5831
Controller Brochure**



**SB-017 KMD-
7000 Series VAV
Controllers-
Actuators Brochure**



**SB-018 KMD-7x00 Series
Controllers Brochure**



**SB-025 KMD-5791
WinControl XL Plus
Software Brochure**



**SB-026 KMD-5270
WebLite Controller
Brochure**



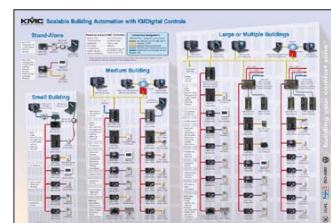
**SB-027 KMD-5205
LANLite Controller
Brochure**



**SB-032 KMD-5210-001 LAN
Controller with BACnet
Interface Brochure**



**SB-042 Scalable Building
Automation with KMDigital
Controls BROCHURE**



**SB-043 Scalable Building
Automation with KMDigital
Controls POSTER**

NOTE: These documents may be downloaded from the KMC web site in Adobe Acrobat PDF format. For more general and electronic product promotional products, see the **SP-071 KMC Controls Catalog (with Electronic and Pneumatic Controls)**. For more detailed product information, see the individual data sheets.



Digital Sensors and Interfaces

NetSensors (Sensors and Operator Interfaces)

NetSensor Selection Guide				
Model	Display Type & Protocol	Optional Sensors	Buttons/Dials/Switches	Comments and Features
KMD-1101	LED (KMD only)	None	6 buttons visible, 3 under cover	Discontinued, for replacement information, see KMD-1101/1104/1121/1124/1154/1174 NetSensors Replacement Cross-Reference on page 11
KMD-1121		Humidity		
KMD-1104		None	Rotary setpoint dial, EasyView	
KMD-1124		Humidity		
KMD-1151		None	6 buttons visible, 3 under cover	KMDigital only, replaceable button labels
KMD-1154			Rotary setpoint dial, EasyView	Discontinued, for replacement information, see KMD-1101/1104/1121/1124/1154/1174 NetSensors Replacement Cross-Reference on page 11
KMD-1171		Humidity	6 buttons visible, 3 under cover	KMDigital only, replaceable button labels
KMD-1174			Rotary setpoint dial, EasyView	Discontinued, for replacement information, see KMD-1101/1104/1121/1124/1154/1174 NetSensors Replacement Cross-Reference on page 11
KMD-1161	LCD (BACnet or KMD)	None	3 buttons visible, 6 under cover*	Round Setpoint button
KMD-1162			2 push buttons, 2 slide switches*	Hospitality (Heat-Off-Cool & High-Med-Low), 2-character display
KMD-1164			3 buttons visible, 6 under cover*	Round Setpoint button
KMD-1181		Round Setpoint button		
KMD-1183		Round Mode button, Alarm button displays “ON/OFF”*		
KMD-1184		Round Setpoint button		
KMD-1185		Round Mode button, Alarm button displays “ALM/OFF”*		
KMD-1261		Motion	2 buttons visible, 6 under cover, and motion sensor*	Round Setpoint button replaced by motion sensor; Up/Down arrows take over its function
KMD-1281		Motion & Humidity		
*See illustrations and information on the next page.				

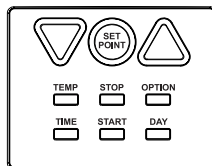
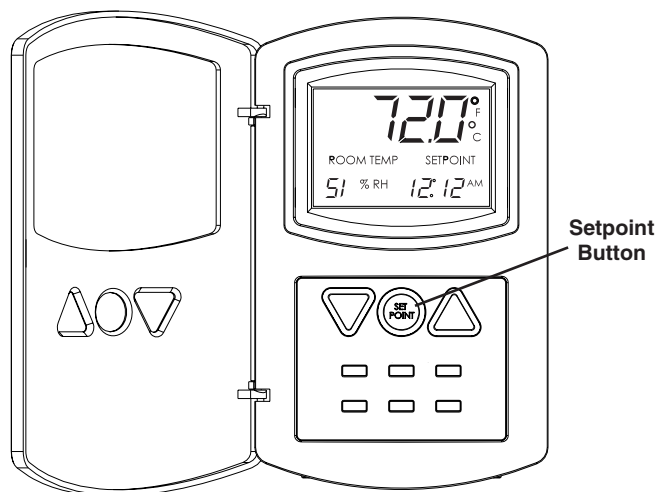
*See illustrations and information on the next page.

NOTE: **KMD-115x/117x (KMDigital only)** NetSensors connect to KMD-58xx and KMD-70xx series controllers via cables with modular plugs.

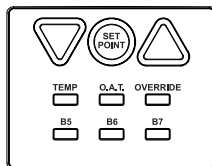
NOTE: KMD-116x/118x/12x1 NetSensors connect to (BACnet or KMDigital) BAC/KMD-58xx and BAC/KMD-70xx series controllers via cables with modular plugs.



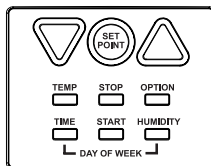
KMD-1161/1164/1181/1184



KMD-1164



KMD-1161/1181



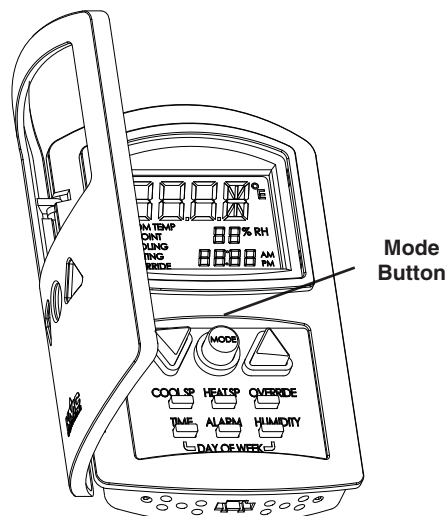
KMD-1184

NOTE: The general-purpose KMD-1161/1164/1181/1184/1261/1281 NetSensors are most often used with controllers in **networked** VAV applications. The KMD-1183/1185 NetSensors are most often used with controllers in **stand-alone** (non-networked) systems.

NOTE: Humidity is shown only in KMD-1x8x models.

SEE: [KMD-1161/1164/1181/1184 NetSensors \(General, Networked\) on page 12.](#)

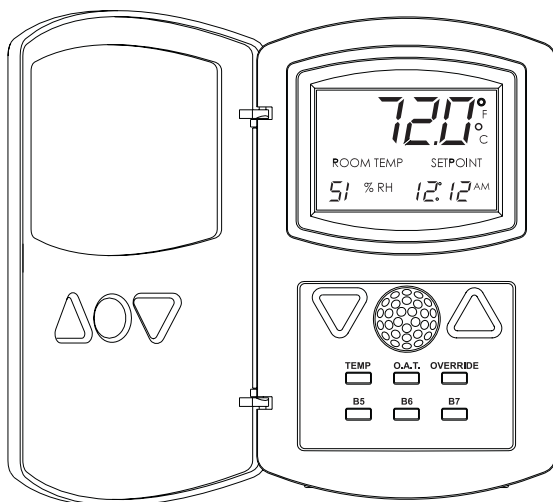
KMD-1183/1185



State	KMD-1183	KMD-1185
Alarm	Display shows room temperature. When Button 6 (ALARM) is pressed, "ON" is momentarily displayed.	Display shows flashing "ALM" (alternates with room temperature display). Pressing Button 6 suppresses "ALM" indication for 10 minutes, and if Button 6 is pressed again during the 10 minute suppression period, "ALM" shows momentarily. When "ALM" is flashing, if any button other than 6 is pressed, the display momentarily returns to the normal display corresponding to that button.
No Alarm	Display shows room temperature. When Button 6 is pressed, "OFF" is momentarily displayed.	

SEE: [KMD-1183/1185 NetSensors \(Stand-Alone or Small Network\) on page 13.](#)

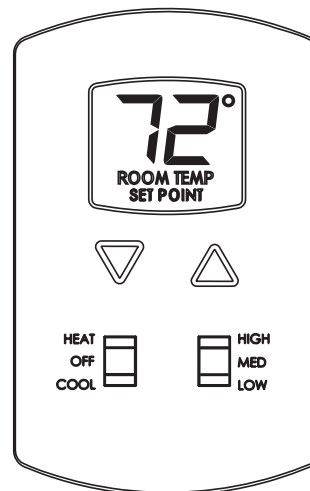
KMD-1261/1281



NOTE: Motion sensor replaces Setpoint/Mode button. Humidity is shown only in KMD-1281.

SEE: [KMD-1261/1281 NetSensors \(Motion Sensing\) on page 13.](#)

KMD-1162



NOTE: FCU hospitality applications with slide switches rather than push buttons under cover. No swing-open cover.

SEE: [KMD-1162 Hospitality NetSensor \(FCU\) on page 12.](#)



KMD-1101/1104/1121/1124/1154/1174 NetSensors Replacement Cross-Reference

Discontinued Model	Replacement Model
KMD-1101*	KMD-1151
KMD-1121*	KMD-1171
KMD-1104*	KMD-1151/1161/1164**
KMD-1124*	KMD-1171/1181/1184**
KMD-1154	KMD-1151/1161/1164**
KMD-1174	KMD-1171/1181/1184**

SEE ALSO: The [NetSensor Selection Guide on page 9](#).

*NOTE: KMD-1101/1104/1121/1124 NetSensors are compatible only with the discontinued KMD-6000 controllers. For new installations, see the corresponding upgraded model shown in the chart at the right. If the NetSensor in an existing installation must be replaced with a newer model, the KMD-6000 controller must also be replaced.

**NOTE: KMD-1104/1124/1154/1174 NetSensors with rotary dials do not have direct replacements. Current NetSensors have a button interface, and the controller will require some reprogramming.

SEE ALSO: The KMD-6xxx Controller Replacement Cross-Reference section in the KMDigital Catalog Supplement (SP-093).

KMD-1151/1171 NetSensors (LED)

(KMDigital Only)



These NetSensors are wall-mounted, temperature-sensing, programmable, operator interfaces for use in a KMC KMDigital direct digital controls system. The simplicity of this design combined with its programmable functions allows for a wide variation of key assignments. They provide the following user features:

- Bright, four-character LED display with programmable on/off times for easy viewing.
- The NetSensor includes nine buttons, seven of which are user programmable, in a simple and functional design. Auxiliary wire leads provide connection for an additional digital input.
- Four-pin EIA-485 (formerly RS-485) data port on the side for easy temporary computer connection to the controller.

Main Features

- Large, 4-character, 7-segment, red LED
- Nine buttons total (seven of which are user programmable), three behind flip-open cover
- Powered by connected controller
- Compatible with KMD-5800 and KMD-7000 series controllers
- Light almond plastic
- Temperature only or temperature and humidity sensing
- Four-pin EIA-485 data port for easy temporary computer connection to the controller
- SASO PCP Registration KSA R-103260

NOTE: KMD-1151/1171s connect to KMD-5800 and KMD-7000 series controllers. They are **not** compatible with discontinued KMD-6000 series controllers as well as any KMC BACnet controllers.

Models

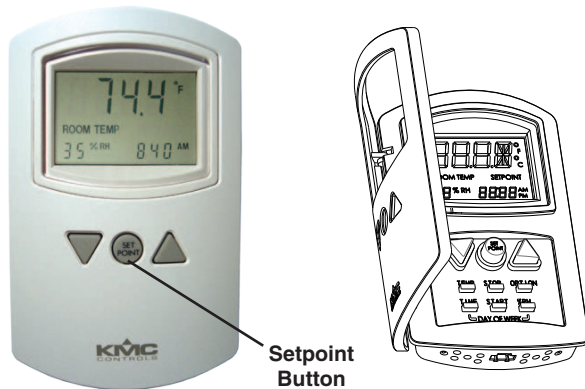
KMD-1151	Temperature Only
KMD-1171	Temperature and Humidity

SEE ALSO: [KMD-1151](#) and [KMD-1171](#) series web pages for details.

SEE ALSO: [NetSensor Accessories on page 23](#) and [NetSensor Selection Guide on page 9](#).



KMD-1161/1164/1181/1184 NetSensors (General, Networked)



These NetSensors are wall-mounted, temperature-sensing, programmable operator interfaces for use in a KMC direct digital controls system. The NetSensor allows easy, direct communication with the connected controller via a local access port.

The NetSensor includes nine function keys, seven of which are programmable. The simple and functional design combined with its programmable functions allows for a wide variety of key assignments.

SEE ALSO: [KMD-1161/1164](#) and [KMD-1181/1184](#) series web pages for details.

Main Features

- Large, four-character LCD display for easy temperature viewing, plus smaller characters for time and (if applicable) relative humidity
- Setpoint and up/down arrow buttons accessible through cover; six additional function buttons behind the flip-open cover
- Seven buttons may be programmed with the controller to display or control the state of any point in the attached controller
- Four-pin EIA-485 (formerly RS-485) data port on the underside for easy temporary computer connection to the controller
- SASO PCP Registration KSA R-103260

Models

Temperature Only

KMD-1161	Almond
KMD-1161W	White
KMD-1164	Almond
KMD-1164W	White

Temperature and Humidity

KMD-1181	Almond
KMD-1181W	White
KMD-1184	Almond

SEE ALSO: [NetSensor Accessories on page 23](#) and [NetSensor Selection Guide on page 9](#).

KMD-1162 Hospitality NetSensor (FCU)



This is a wall-mounted, temperature-sensing, programmable operator interface for use with a fan coil unit controlled by a KMC direct digital controls system. It includes intuitive-to-use setpoint buttons, and two **slide switches for heating/cooling change over and fan speed**. (Humidity is not sensed or displayed, and it does not have a hinged cover.) Four-pin EIA-485 (formerly RS-485) data port on the underside for easy temporary computer connection to the controller.

SEE ALSO: [KMD-1162](#) series web pages for details.

Main Features

- Large, two-character LCD display for easy temperature viewing with automatic backlight
- Two up/down setpoint arrow buttons
- Two slide switches for heating/cooling change over and fan speed
- Designed primarily for fan coil units in hotel rooms or similar applications
- Four-pin EIA-485 (formerly RS-485) data port on the underside for easy temporary computer connection to the controller
- SASO PCP Registration KSA R-103260

Models

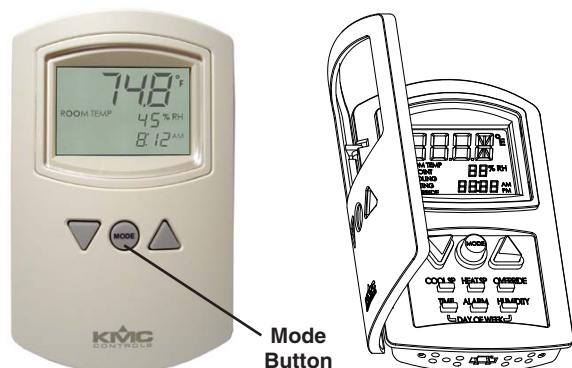
KMD-1162	Almond
KMD-1162W	White

SEE ALSO: [NetSensor Accessories on page 23](#) and [NetSensor Selection Guide on page 9](#).



KMD-1183/1185

NetSensors (Stand-Alone or Small Network)



This is a temperature/humidity-sensing, wall-mounted, programmable operator interface for use in a KMC direct digital controls system. Compared to the KMD-1161/1164/1181/1184, the KMD-1183/1185 has many similar features except that it has different display configuration and button functions/labels:

- The center **Mode** button allows easy cycling between display/set options for room temperature, cooling setpoint, heating setpoint, and override.
- Flipping open the cover allows access to six function buttons: **Cooling Setpoint, Heating Setpoint, Override, Time*, Alarm*, Humidity***, and (two buttons pressed together) **Day of Week***. (*Three buttons and a fourth combination of buttons may be reassigned and programmed with the controller to display or control the state of any point in the attached controller.)

SEE ALSO: [KMD-1183/1185](#) series web pages for details.

Main Features

- Large, four-character LCD display for easy temperature viewing, plus smaller characters for time and (if applicable) relative humidity
- Mode and up/down arrow buttons accessible through cover; six additional function buttons behind the flip-open cover
- Seven buttons may be programmed with the controller to display or control the state of any point in the attached controller
- Four-pin EIA-485 (formerly RS-485) data port on the underside for easy temporary computer connection to the controller
- SASO PCP Registration KSA R-103260

Models and Alarm Handling

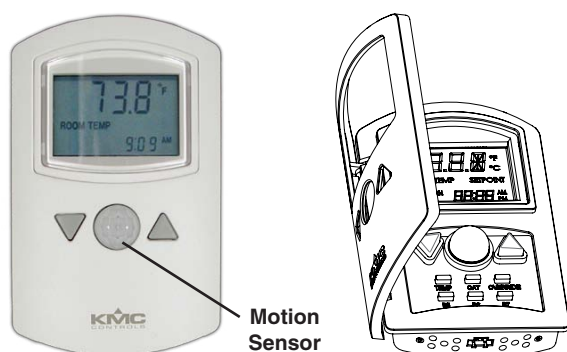
The only difference between the KMD-1183 and the KMD-1185 is how each NetSensor handles an alarm state signalled by the connected controller. The difference is described in the chart below.

State	KMD-1183	KMD-1185
Alarm	Display shows room temperature. When Button 6 (ALARM) is pressed, "ON" is momentarily displayed.	Display shows flashing "ALM" (alternates with room temperature display). Pressing Button 6 suppresses "ALM" indication for 10 minutes, and if Button 6 is pressed again during the 10 minute suppression period, "ALM" shows momentarily. When "ALM" is flashing, if any button other than 6 is pressed, the display momentarily returns to the normal display corresponding to that button.
No Alarm	Display shows room temperature. When Button 6 is pressed, "OFF" is momentarily displayed.	

SEE ALSO: [NetSensor Accessories on page 23](#) and [NetSensor Selection Guide on page 9](#).

KMD-1261/1281

NetSensors (Motion Sensing)



These models are wall-mounted, temperature and motion sensing, programmable operator interfaces for use in a KMC direct digital controls system. Compared to the KMD-1161/1164/1181/1184 models, the KMD-1261/1281 models have many similar features except a motion sensor is included (in the place of the center button). The motion sensor can detect room occupancy with a range of up to 33 feet. Model KMD-1281 also includes humidity sensing.

The simple and functional design combined with programmable buttons make these models an ideal choice for installations that require temperature, humidity, motion sensing, and an operator interface in one unit.

Main Features

- Large, easy to read, backlit LCD display for easy temperature viewing, plus smaller characters for time and relative humidity
- Detect room occupancy up to 33 feet with built-in motion sensor
- Convenient setpoint buttons accessible without opening the hinged cover; six additional buttons are located behind the cover
- Flexible applications with six buttons that may be programmed to display or control the state of any point in the attached controller
- Four-pin EIA-485 (formerly RS-485) data port on the underside for easy temporary computer connection to the controller
- SASO PCP Registration KSA R-103260

Models

KMD-1261	Temperature only, light almond
KMD-12611W	Temperature only, white
KMD-1281	Temperature and humidity, light almond
KMD-1281W	Temperature and humidity, white

SEE ALSO: [KMD-1261/1281](#) series web pages for details.

SEE ALSO: [NetSensor Accessories on page 23](#) and [NetSensor Selection Guide on page 9](#).



NetView (Operator Interface)

KMD-1002

(KMDigital Only)

NetView



The NetView is an operator interface designed for viewing and controlling a KMC Tier 2 (sub LAN) network. The 4.9 x 2.5" LCD touch screen with blue backlighting provides crisp, easy-to-view access to a direct digital network without a computer or special programming. Based on password permissions stored in the network controllers, the following can be viewed and changed with a KMC NetView:

- Time and date
- Weekly schedules
- Annual schedules
- System groups (text only)
- Inputs
- Outputs
- Setpoints/Variables
- Alarm reporting
- Trend/Run Time Log Data (text Only)

Main Features

Dimensions	7.19 x 6.19 in. (482.6 x 157.2 mm)
Display	
• Type	LCD touch panel
• Character size	5 x 8 pixels
• Screen size	42 characters by 16 rows, 256 x 128 pixels
• Viewing area	2.56 x 4.9 in. (124.5 x 65.0 mm)
Communications	KMC Tier 2 EIA-485 (2400 to 38400 auto baud detection), max. one NetView per Tier 2 network
Connections	
• Network	Female modular jack
• Power	Screw terminals
Power	24 VAC, 20 VA, HPO-0068 recommended
Mounting	
• Surface	Backplate mounts to 2 x 4 inch or 4 x 4 inch standard electrical handy-box or any flat surface.
• Panel	Optional brackets mount the NetView in 6.81 x 5.81 inch cutout.
Material	Light almond, flame-retardant plastic
Regulatory	
• UL 916 Energy Management Equipment listed	
• FCC Class B, Part 15, Subpart B	
• CE mark	

SEE ALSO: [KMD-1002](#) series web pages for details.

Accessories

Plenum cable with modular connectors
(NetSensor/NetView to controller):

KMD-5690	25 foot
KMD-5691	50 foot
KMD-5692	75 foot

HPO-0068 Plug-in transformer for KMD-1002 NetView

HMO-4540 Panel mounting bracket and screws for mounting the KMD-1002 NetView in a 6.81 x 5.81 inch panel cutout (not needed for surface mounting)



KMD-7311/7312 Attain Cross-Reference

NOTE: The former KMD-7311/7312 Attain package included:

- NetView (KMD-1002) w/ transformer (HPO-0068)
- 4 x 4 controller (KMD-7301C for AHU applications or KMD-7302C for RTU) with transformer (XEE-6111-040)
- 75-foot plenum cable (KMD-5692)
- Wall sensor (STE-5012) and vertical and horizontal mounting plates (HMO-5036/5039)

These components are still available separately except for the STE-5012. Use one of the STE-6000 series sensors instead.



Wireless Sensors

STW-6000 and THW-1100 series

Wireless Temperature and Humidity Sensors



STW-6010 and THW-1102



STW-6014

These wireless, compact, and stylish (white) room temperature and humidity sensors are designed for use with KMC controllers or other building automation systems.

- Easy mounting to flat surfaces.
- Reduce maintenance with energy-harvesting, solar powered technology.
- Save time and labor cost on installation.
- Choose from models with temperature only, temperature and humidity, and temperature with setpoint.
- Durable, low-profile, thermostat-style case is visually appealing.
- Sensors are compatible with EnOcean gateways and are BACnet devices when used with a BAC-5301 gateway.

Models

For use in North America (315 MHz)

STW-6010W	Temperature Sensor
STW-6014W	Temperature Sensor and Setpoint Adjustment
THW-1102W	Temperature and Humidity Sensor

For use outside of North America (868 MHz)

STW-6010DW	Temperature Sensor
STW-6014DW	Temperature Sensor and Setpoint Adjustment
THW-1102DW	Temperature and Humidity Sensor

Main Features

Power Supply

- Energy harvesting solar cell with optional CR1225 lithium coin cell backup
- Time from fully discharged to fully operational is instantaneous with battery backup or typically less than 2.5 minutes with 400 lux of fluorescent or incandescent illumination with solar cell only
- Operational time in full darkness is typically four days at 25° C with solar cell only (based on a measurement every 100 seconds and transmission every 1000 seconds)

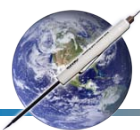
RF Communications

- Antenna Built-in wire whip
- Frequency 315.0 or 868.3 MHz
- Output Power 868.3 MHz: +8 dBm1(EIRP) \pm 2.5 dB2 or 315.0 MHz: +92 dB μ V/m1 \pm 2 dB2
- Regulatory 868.3 MHz: R&TTE EN 300 220
315.0 MHz: FCC CFR-47 Part 15
- Estimated range 98 ft. (30 m) or less in open areas or 33 ft (10 m) or less in closed spaces

Measurement Specifications

- Temp. range 32-104° F (0-40 °C)
- Temp. accuracy \pm 0.9° F from 62 to 80° F (\pm 0.5° C from 17 to 27 °C)
- Humidity accuracy (THW series only) + 5% RH from 30-70% RH from 32-104° F (0-40° C)
- Setpoint dial 54-90° F (12-32° C) over 270° rotation
- Transmission interval Every 100 seconds upon change of measurement threshold and between 700 and 1400 seconds without a change of threshold

SEE ALSO: [Wireless Sensors](#) web page for details.



Accessories

Adapters and Cables

KMD-5600 Series Cables

KMD-5614 Cable, 7-foot long, 4-conductor, modular plug both ends (one included w/ KMD-5550/5556/5557/5559/5576)



KMD-5615 Cable, 7-foot long, 6-conductor, modular plug both ends (one included w/ KMD-5550/5556/5557/5559)



KMD-5624 USB Communicator modular plug to NetSensor/FlexStat cable



KMD-5672 EIA-232 cable, KMD-5210/BAC-A1616BC/BAC-5050 serial port to PC, female 9-pin D-sub connector to terminal block



KMD-5673 EIA-232 cable, KMD-5205/5270 to PC, dual female 9-pin D-sub connectors, 6-foot long



KMD-5674 Modem cable for use with KMD-5205/5270 (but **NOT** with KMD-5210, BAC-5050, or BAC-A1616BC), female 9-pin and male 25-pin D-sub connectors



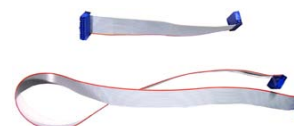
Plenum cable with modular connectors, (controller to NetSensor/NetView):

KMD-5689 12 foot
KMD-5690 25 foot
KMD-5691 50 foot
KMD-5692 75 foot



Ribbon cables, KMD-5220/5221 modules to KMD-5210 series:

KMD-5660 6" I/O cable
KMD-5668 9" I/O cable
KMD-5661 14" I/O cable
KMD-5662 19" I/O cable
KMD-5663 24" I/O cable



KMD-5620 Series Adapters

KMD-5625-1* Female modular jack to 25-pin male serial D-sub connector, one included with KMD-5559

KMD-5625* One included with KMD-5550/5556



KMD-5627 Female modular jack to 9-pin **male** serial D-sub connector, **four**-conductor

KMD-5628-1** Female modular jack to 9-pin **female** serial D-sub connector, **six**-conductor, one included w/ KMD-5559

KMD-5628** One included with KMD-5557



*NOTE: The KMD-5625-1 and the older KMD-5625 look similar, but they are wired differently and are not interchangeable.

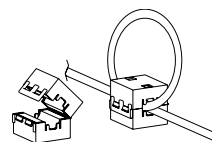
**NOTE: The KMD-5628-1 and the older KMD-5628 look similar, but they are wired differently and are not interchangeable.



Hardware, Miscellaneous

Ferrite Core

HPO-6001 Replacement cable ferrite core



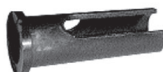
Jumper (Power, EOL, and Output Override)

HPO-0063 Replacement two-pin jumper



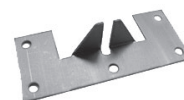
Reducer Bushing and Non-Rotational Bracket

HFO-0011 Reducer bushing, 1/2" to 3/8" shaft adapter for BAC/KMD-7000 series controller-actuators



HMO-4531

Replacement non-rotational bracket (one included with BAC/KMD-7000 series controller-actuators)



Resistor (249 Ohm) Pack

HPO-0069 249 ohm resistors (pack of 100) for converting 4-20 mA signals into 1-5 VDC signals for controller inputs without built-in conversion



Snap Track

HMO-4524 Replacement 3-1/4 x 8-1/2" Snap Track for KMD-7011/7013/7101/7102 controllers; can also be snapped into shorter lengths to fit XEC-300x and XEE-1501 transducers and REE-210x/31xx relays



SSS-1000 Series Differential Pressure Flow Sensors

The differential pressure read between the high "H" port and the low "L" port can be used by the BAC/KMD-7000 series to determine the air flow. Connections are 1/4" (6 mm) nipples for 3/8" (10 mm) OD polyethylene tubing. Use a 3/8" barb to 1/4" barb adapter.

SSS-1002	3-5/32 inches long, one set sensing points
SSS-1003	5-13/32 inches long, two sets sensing points
SSS-1004	7-21/32 inches long, three sets sensing points
SSS-1005	9-29/32 inches long, four sets sensing points

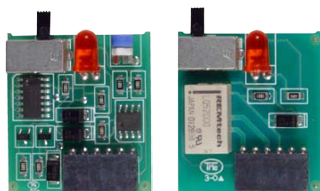


NOTE: For maximum measurement accuracy, install the longest sensor that will fit into the duct.



Interfaces and Converters

HPO-670x Series Output Override Boards



For enhanced output options and for devices that cannot be conveniently powered directly from a standard controller universal output, install a relevant HPO-670x series output override board (in supporting controller models only). Each (except HPO-670x-1) has an accessible three-position slide switch for selecting the “**Hand-Off-Auto**” functions. In the “**Hand**” position, the output is manually energized, and the controller is provided with a feedback signal to indicate the output has been overridden. In the “**Off**” position, the output is manually de-energized, and the controller is provided with a feedback signal to indicate the output has been overridden. In the “**Auto**” position, the output is under the command of the controller. Each output board also has an LED to indicate when the output is turned On either manually or automatically.

Approvals include SASO PCP Registration KSA R-103260 and (for HPO-6701/6704 only) UL 916 Energy Management Equipment listed and UL 864 Smoke Control Equipment listed (UUKL).

SEE ALSO: [HPO-670x series](#) web pages for details.

Models

Triac (AC)*

HPO-6701 Triac, zero-cross switching, optical isolation

Analog (DC Voltage or Current) Outputs

HPO-6702 0–10 VDC analog, with adjustable override pot.

HPO-6704 4–20 mA, with adjustable override pot.

Relays (AC or DC)*

HPO-6703* Normally open relay

HPO-6705 Normally closed relay

*NOTE: HPO-6703-1 is always in auto mode and **without** the manual HAO slide switch. The HPO-6703 has the switch.

NOTE The **HPO-6802 raised cover** with labels is required to secure override boards in “**metal-case**” controllers (BAC/KMD-5831, BAC-A1616BC, CAN-A16BEIO, KMD-5205, KMD-5221, and KMD-5270). The cover is not applicable to current model controllers with raised plastic cases (e.g., BAC/KMD-5801/5802).



HTO-1101/1102/1103

Firmware Upgrade Kits (and CO₂ Gas Tubing Adapter)



These kits enable upgrading firmware in KMDigital and BACnet controllers, the BAC-5050 router, and the KMD-5540 series CommTalk protocol interfaces. The kits include the relevant programming pod and cables. The HTO-1103 (shown in part) also has adapter plates for the three types of FlexStat backplates as well as adapter CO₂ gas tubing for calibrating BAC-14xxxx models.

The latest firmware is available from the product pages or download section of KMC Control’s Partner web site.

Models

	HTO-1101	HTO-1102	HTO-1103
Controller, Router, CommTalk Models	KMD-5540 Series CommTalk KMD-7001 KMD-7002 KMD-7003 KMD-7011 KMD-7013 KMD-7051 KMD-7052 KMD-7053 KMD-7101 KMD-7102 KMD-7301 KMD-7302 KMD-7401	KMD-5205 KMD-5210 KMD-5270 KMD-5801 KMD-5802 KMD-5821 KMD-5831 BAC-5050 Router BAC-5801 BAC-5802 BAC-5831 BAC-7001 BAC-7003 BAC-7051 BAC-7053 BAC-7301 BAC-7302 BAC-7303 BAC-7401	All FlexStat models (and includes adapter tubing for CO ₂ gas calibration of BAC-14xxxx models)
Cross-Reference	Replace the discontinued KMD-5698 with USB interface—the parallel interface of the KMD-5696 is no longer supported		Replaces the discontinued KMD-5699



KMD-5540 Series

(KMDigital Only)

CommTalk Protocol Interfaces



The KMC CommTalk Protocol Interface provides a standard equipment interface between KMC networks and third-party equipment interfaces. Depending on the model, some CommTalk Protocol devices respond to the third-party device as if it were communicating with a KMD-7000 series direct digital controller. Others perform as a data translator between the third-party interface and a KMD-5210 LAN Controller. The KMD-5540 features output configurations to meet popular standard equipment interfaces and simple installation and setup.

Models

KMD-5540-001	Carrier DataPort interface
KMD-5540-002	Carrier DataLink interface
KMD-5540-003	York Talk XL interface
KMD-5540-004	McQuay MicroTech OPM (Open Protocol Master) interface
KMD-5540-005	ModBus interface

SEE ALSO: [KMD-5540 series](#) web pages for more details.

Main Features

Supply Voltage	24 VAC (-15/+20%) Class 2
Input Power	10 VA Maximum
Baud Rate	9,600 to 38,400
Communications	(2) EIA-485 and (2) EIA-232 with removable terminal blocks for 14–22 AWG

Auxiliary Communications

(2) EIA-485 with modular connectors for PC connection or for KMD-1001 NetView

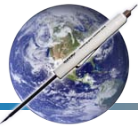
Communications Wiring

Belden 82760 or equivalent, 18 AWG twisted, shielded, 5.5 ohms/1000 ft., and ≤ 51 pf/ft.
EIA-485: Maximum 4000 ft. without repeater
EIA-232: Maximum 50 ft. without repeater

Accessories

HPO-0054	Replacement fuse bulb
HPO-0063	Replacement jumper
KMD-5614	Replacement 7-foot long, 4-conductor, modular plug both ends
KMD-5615	Replacement 7-foot long, 6-conductor, modular plug both ends
KMD-5625-1*	Replacement female modular jack to 25-pin male serial D-sub connector
KMD-5628-1*	Replacement female modular jack to 9-pin female serial D-sub connector, six-conductor

*NOTE: The KMD-5625-1 and the older KMD-5625 look similar, but they are wired differently and are not interchangeable. The KMD-5628-1 and the older KMD-5628 also look similar, but they are wired differently and are not interchangeable. The KMD-5540 series interfaces use the KMD-5625-1 and the KMD-5628-1.



KMD-5550/5556

(KMDigital Only)

Modem Interfaces



KMD-5550/5556 modem interfaces provide the communication link between **discontinued** KMD-5501/5502/5504/5505 controllers or subnetworks with a modem to a compatible personal computer. They operate by converting EIA-485 signals from KMC equipment into the EIA-232 signals common to computer modem equipment and PC compatible computers. They operate with any Hayes™ compatible modem, and they are designed to be used with a standard modem configuration set to specific KMC parameters.

NOTE: These are for direct replacements in existing installations using operating systems through Windows 98. For new installations, use a KMD-5559 series CommTalk.

SEE ALSO: [KMD-5550/5556 series](#) web page for more details.

SEE ALSO: The KMDigital 5xxx Series Controller Replacement Cross-Reference section in the KMDigital Catalog Supplement (SP-093) for replacements of the KMD-5501/5502/5504/5505.

Main Features

Supply Voltage	5 volts DC from KMD-5500 series controller
Input Power	42 mA
Material	Light almond plastic

Models

KMD-5550	Modem (no dial-out)
KMD-5556	Modem with telephone dial-out capability to local controllers

Accessories

KMD-5614	Replacement 7-foot long, 4-conductor, modular plug both ends (for controller connection)
KMD-5615	Replacement 7-foot long, 6-conductor, modular plug both ends (for modem connection)
KMD-5625*	Replacement female modular jack to 25-pin male serial D-sub connector adapter

*NOTE: The KMD-5625-1 and the older KMD-5625 look similar, but they are wired differently and are not interchangeable. The KMD-5550/5556 uses the **KMD-5625**.

KMD-5557

(KMDigital Only)

Computer Interface (EIA-485 to EIA-232 Converter)



The KMD-5557 Computer Interface provides the communication link between KMD-5500/5800/6000/7000 series controllers or subnetworks and an IBM™ compatible personal computer (that does not have a USB port). **This product is NOT certified to operate with Windows 2000, XP, or Vista.** For Windows 2000 and later, use the KMD-5576 USB to EIA-485 Communicator.

The KMD-5557 is optically isolated to prevent signal interference and converts the EIA-485 signal used by the controller to an EIA-232 signal used by the PC. The KMD-5557 is designed specifically to provide a communications interface between the EIA-485 signal used by KMD-5500/5800/6000/7000 series controllers, or subnetworks attached to these controllers, and a compatible PC.

SEE ALSO: [KMD-5557](#) web page for more details.

Main Features

Supply Voltage	5 volts DC from KMD-5500 controller or PC
Input Power	
• Controller	26 mA
• PC	7 mA
Material	Beige plastic

Accessories

KMD-5614	Replacement 7-foot long, 4-conductor, modular plug both ends (for controller connection)
KMD-5615	Replacement 7-foot long, 6-conductor, modular plug both ends (for computer connection)
KMD-5628*	Replacement female modular jack to 9-pin female serial D-sub connector adapter

*NOTE: The KMD-5628-1 and the older KMD-5628 look similar, but they are wired differently and are not interchangeable. The KMD-5557 uses the **KMD-5628**.



KMD-5559 Series

(KMDigital Only)

CommTalk Communications Interfaces



The KMD-5559 CommTalk is a microprocessor-based, programmable, communications interface module. The CommTalk manages all communications between the KMC Digital Tier 2 network and an external reporting service such as a modem-to-modem/PC, modem-to-pager service, or a PC.

The CommTalk can be programmed to initiate a modem-to-modem/PC connection. The CommTalk will send any alarms and manage any request from a PC before terminating the modem-to-modem/PC connection.

The CommTalk may also be programmed to initiate a modem-to-pager service connection. The CommTalk will deliver the appropriate access codes to the pager service and send a text or numeric message as programmed. The pager number, access codes, and messages are programmed in the KMC Digital controllers.

Models

KMD-5559	19.2K Baud Modem/PC, supplied with the HPO-0068 transformer
KMD-5559E	Supplied without HPO-0068 (for 240 volt AC mains, use Stancor STAF-2098F or equivalent)
KMD-5559-2	9.6K Baud Modem/PC, supplied with HPO-0068

SEE ALSO: [KMD-5559 series](#) web pages for more details.

Main Features

Installation

- Supply Voltage 9 to 24 volts AC or DC supplied by the HPO-0068 (requires 2.1 x 5.5 mm barrel plug)
- Dimensions 5.38 x 3.38 x 1.32 inches (137 x 86 x 34 mm)
- Weight 8.7 oz (247 grams)

KMD-5559 and KMD-5559E Baud Rates

- CommTalk to Controller Auto (9600 to 38400)
- CommTalk to PC or modem 19.2K (fixed)

KMD-5559-2 and KMD-5559-2E Baud Rates

- CommTalk to Controller Auto (9600 to 38400)
- CommTalk to PC or modem 9.6K (fixed)

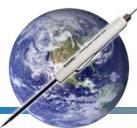
Regulatory

UL 916 Energy Management Equipment listed
CE compliant

Accessories

KMD-5628-1*	Replacement female modular jack to 9-pin female D-sub connector PC adapter
KMD-5625-1*	Replacement female modular jack to 25-pin male D-sub connector modem adapter
KMD-5614	Replacement four-wire flat cable with male modular connectors for CommTalk to KMD digital controller
KMD-5615	Replacement six-wire flat cable with male modular connectors for CommTalk to modem
HPO-0068	Replacement required power supply
KMD-5569	56K baud external modem

*NOTE: The KMD-5625-1 and the older KMD-5625 look similar but are not interchangeable. The KMD-5628-1 and the older KMD-5628 also look similar are not interchangeable. The KMD-5540 series interfaces use the KMD-5625-1 and the KMD-5628-1.



KMD-5569

56K Faxmodem



The KMD-5569 is a modem approved for dial-up applications with the following KMC Controls products:

- BAC-A1616BC Building Controller
- BAC-5000 BACstage
- BAC-5050 FullBAC Router
- KMD-5205 LANLite
- KMD-5210 (all models) LAN Controller
- KMD-5270 (all models) WebLite
- KMD-5559/5559-2 CommTalk
- KMD-5791/5792 WinControl XL (Plus)

Capable of receiving at up to 56 kbps and sending at up to 48 kbps (or 31.2 kbps with V.90 server). (Due to FCC regulations, receiving speeds are limited to 53 kbps; actual speeds may vary.)

SEE ALSO: [KMD-5569 series](#) web pages for more details.

Main Features

Modem standards and protocols supported:

- V.92 56 kbps ITU standard
- V.90 56 kbps ITU standard
- V.34 33.6 kbps ITU standard

Compatible with ITU and Bell standards from:

- 56 kbps to 1200 bps
- V.42/MNP 2-4 error control, V.42 bis/MNP 5 data compression
- Fax: Class 1 and 2.0 Group III 14.4 Kbps send and receive

Requirements:

- Computer with Windows 2000 or XP for operations with BACstage or WinControl
- Dedicated 56K compatible local analog telephone line
- Serial cable (not included)

Accessories

KMD-5674	Modem cable for KMD-5205 series and KMD-5270 series (but NOT with KMD-5210, BAC-5050, or BAC-A1616BC)
KMD-5625-1*	Modular connector to 25-pin D-sub serial adapter for KMD-5559 ComTalk (included with CommTalk)
KMD-5615	Six -wire flat cable with male modular connectors for KMD-5559 CommTalk to modem (included with CommTalk)

*NOTE: The KMD-5625-1 and the older KMD-5625 look similar but are not interchangeable.

KMD-5576

USB to EIA-485 Communicator



The ("hockey puck") KMD-5576 is a USB (Universal Serial Bus) to EIA-485 (formerly RS-485) converter. It connects a computer USB port to a BACnet or KMDigital network by plugging into a KMC Tier 2 (only) controller or a NetSensor/FlexStat/STE-5x24/STE-6000 series data port. It provides network access to a computer running BACstage or WinControl (but not TotalControl).

SEE ALSO: [KMD-5576](#) web pages for more details.

Main Features

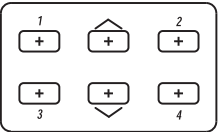

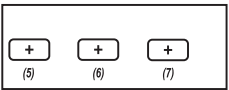



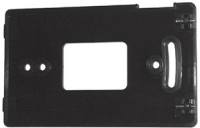

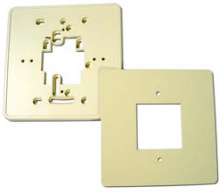




Operating System	Windows 2000, XP, Vista, and Windows 7 (32 and 64 bit)—not compatible with earlier Windows versions that do not support USB
Power	No external power source is required; it draws power from the USB port and Tier 2 device
USB Compliance	USB 2.0
Optical Isolation	Up to 2.5 kilovolts between the ports
Indicators	Green, USB transmit and receive LEDs

Accessories

KMD-5614	Replacement cable, USB Communicator to controller port, 7-foot long, 4-conductor, modular plug both ends
KMD-5624	Replacement cable, USB Communicator to NetSensor, FlexStat, or STE-6000 data port



NetSensor Accessories

HDO-4008	KMD-1151/1171 six-button, light almond plastic adhesive labels		KMD-5559	NetSensor EIA-485 to EIA-232 CommTalk (see KMD-5559 Series CommTalk Communications Interfaces on page 21 for details)	
HDO-4101	KMD-1151/1171 three-button plastic adhesive labels for under the flip-open cover		KMD-5576	NetSensor EIA-485 to USB Communicator (see KMD-5576 USB to EIA-485 Communicator on page 22 for details)	
HMO-1161	KMD-116x/118x/12x1 mounting plate allows mounting to horizontal 2 x 4" or 4 x 4" handy boxes, light almond (shown)		KMD-5624	Replacement NetSensor to CommTalk or USB Communicator cable	
HMO-1161W	White				
HMO-5040	KMD-1151/1171 replacement mounting base, vertical standard plate mounts to 2 x 4" handy-box, includes 2 hex screws		Plenum cable with modular connectors, (NetSensor to controller):		
			KMD-5690	25 foot	
			KMD-5691	50 foot	
			KMD-5692	75 foot	
HMO-5042	KMD-1151/1171 mounting plate allows mounting to horizontal 2 x 4" or 4 x 4" handy boxes, light almond		SP-001	Screwdriver (KMC branded), narrow flat blade end and (for NetSensor cover screws) 1/16" hex end, with pocket clip	
HPO-0044	Replacement cover hex screw				
HPO-0064	KMD-1151/1171 replacement flip-out cover door				
HPO-1161	Foam insulating gasket				

NOTE: For FlexStat accessories, see the [FlexStat Catalog Supplement and Selection Guide \(SP-091\)](#).

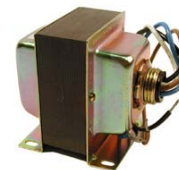


Power and Protective Devices

Power Supplies and Transformers

HPO-0068	Plug-in power supply for KMD-1002, KMD-5559, and BAC-5301
KMD-5563	Replacement +5 and ± 15 VDC power supply with 5-pin DIN connector for BAC-5050 and KMD-5210 series
XEE-6111-040	Transformer, 120-to-24 VAC, 40 VA, single hub
XEE-6112-040	Transformer, 120-to-24 VAC, 40 VA, dual hub
XEE-6111-050	Transformer, 120-to-24 VAC, 50 VA, single hub
XEE-6112-050	Transformer, 120-to-24 VAC, 50 VA, dual hub
XEE-6211-050	Transformer, 277-to-24 VAC, 50 VA, single hub
XEE-6212-050	Transformer, 277-to-24 VAC, 50 VA, dual hub
XEE-6311-050	Transformer, 120/240/277/480-to-24 VAC, 50 VA, dual hub*
XEE-6111-075	Transformer, 120-to-24 VAC, 75 VA, single hub*
XEE-6112-075	Transformer, 120-to-24 VAC, 75 VA, dual hub*
XEE-6311-075	Transformer, 120/208/240/480-to-24 VAC, 75 VA, single hub*
XEE-6111-100	Transformer, 120-to-24 VAC, 96 VA, single hub*
XEE-6112-100	Transformer, 120-to-24 VAC, 96 VA, dual hub*
XEE-6311-100	Transformer, 120/240/277/480-to-24 VAC, 96 VA, dual hub*

(* = includes a built-in circuit breaker)



**Single Hub
XEE-6111 Shown**

SEE: [XEE-6000 series](#) web pages for details.

Fuse and Fuse Bulb

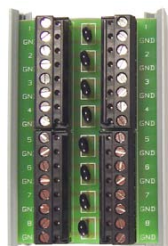
HPO-0053	Fuse, 1 A, fast acting, 5 x 20 mm
HPO-0054	Fuse bulb for network connection protection/isolation





HPO-0070/0071

Input/Output Transient Suppressor Boards



**HPO-0071
Shown**



The HPO-0071 is an eight-circuit transient suppressor board used on the inputs of digital controllers, and the twelve-circuit HPO-0070 is used on the outputs. (If such a controller has more than eight inputs, an additional HPO-0071 will be needed.) When properly installed and wired, these board can protect the digital controllers from high-voltage transients. (These boards are required on every controller involved in smoke control applications.)

Models

HPO-0070	Twelve-output transient suppressor board
HPO-0071	Eight-input transient suppressor board

Main Features

Mounting	Snap Track
Technology	Transorbs
Max. Peak Current	250 A, 1 time (@ 8/20 μ s); 125 A, 2 times (@ 8/20 μ s)
Voltage	18 Volts
Clamping Voltage	40 Volts @ 8/20 μ s
Regulatory	UL 864 Smoke Control Equipment listed (UUKL) UL 916 Energy Management Equipment listed

SEE: [HPO-007x](#) web pages for more details.

KMD-5567

Network Surge Suppressor Module



The KMD-5567 is a two part unit consisting of the HPO-0066 suppressor module and the HPO-0067 terminal connector. When properly installed and wired, the KMD-5567 can help protect the digital communication circuitry from lightning damage. It is installed at building exits and entrances to provide surge suppression for one or two pairs of data signal lines. In smoke control applications, one KMD-5567 is also required for the EIA-485 terminals of every controller and repeater as well.

Main Features

Peak Surge Current	8 x 20 μ s 10 kA; 10 x 700 μ s 500 A per line
Life Expectancy	8 x 20 μ s (2000 A) 100 occurrences, 10 x 700 μ s (400 A) 100 occurrences
Response Time	< 1 nanosecond
Voltage Clamp	15 volts
Technology	SAD hybrid
Resistance	8.0 ohms per line
Capacitance	1500 pf (average)
Regulatory	UL 497B Isolated Loop Circuit Protectors listed UL 864 Smoke Control Equipment listed (UUKL)

Accessories

HPO-0066	Suppressor module (top)
HPO-0067	Suppressor terminal connector (bottom)

SEE: [KMD-5567](#) web page for details.

KMD-5575

Repeater-Isolator



The KMD-5575 extends and reconditions EIA-485 network communications as well as enabling "T" or branch networks. A KMD-5575 is required after every 31 consecutive controllers on KMDigital or BACnet subnetworks (e.g., between controllers 31 and 32) or if the cumulative wiring distance exceeds 4,000 feet. (For smoke control applications, the maximum total length of the EIA-485 network cable, including all repeaters, is 4,000 feet.) In addition, the KMD-5575 is required for "T" or branch network wiring configurations.

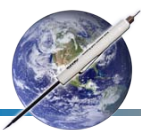
Main Features

Supply Voltage	24 VAC (-15%/+20%), 60 Hz, 3 VA, Class 2
Baud Rate	9,600 to 38,400
Regulatory	UL 864 Smoke Control Equipment listed (UUKL)

Accessories

HPO-0063	Replacement two-pin jumper
HCO-1102	Steel control enclosure, 10.1 x 2.4 x 7.1 inches (257 x 62 x 181 mm)
XEE-6111-040	Transformer, 120-to-24 VAC, 40 VA, single-hub
XEE-6112-040	Transformer, 120-to-24 VAC, 40 VA, dual-hub
XEE-6112-100	Transformer, 120-to-24 VAC, 96 VA, dual-hub (required in smoke control applications)

SEE: [KMD-5575](#) web page for details.

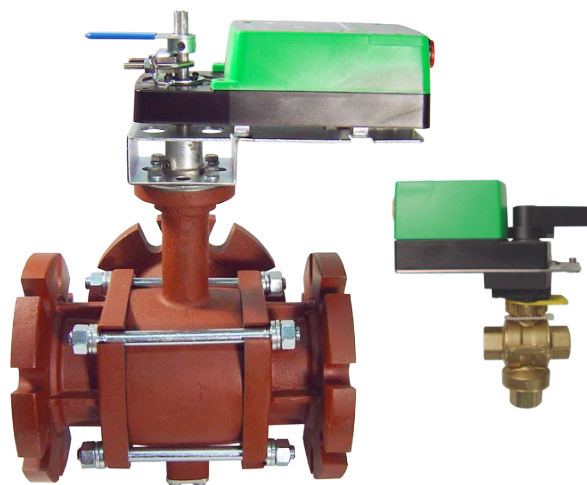


Input, Output, and Other Devices

This catalog supplements the information in the larger [SP-071 KMC Catalog \(Electronic and Pneumatic Controls\)](#). See that catalog for information about the many input, output, and other devices for the digital controllers.

Output options include:

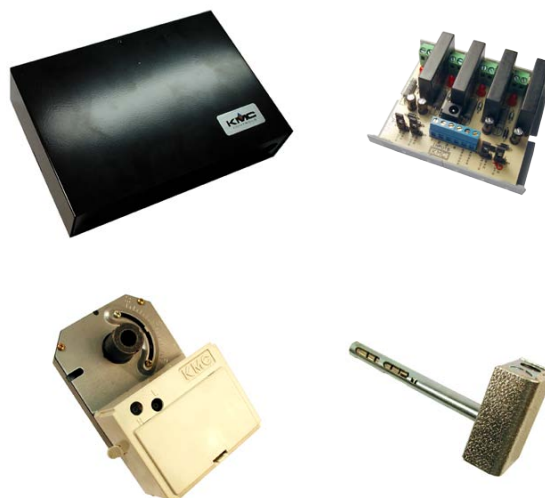
- **Actuators** (10 to 320 in.-lb., tri-state/proportional/two-position inputs, selectable fail-safe direction, and other control options)
- **Valves** (1/2" to 6", 2-way and 3-way, and various actuator options)



Other miscellaneous accessory options include:

- **Controllers** (analog electronic and low limit)
- **Relays** (multiple inputs, outputs, and control options)
- **Thermostats** (analog electronic)
- **Enclosures** (various sizes for relays, controllers, and actuators)

Many of these are used with KMC's older analog electronic controllers as well as with the latest digital controllers.



Input options include:

- **Sensors and Transmitters** (temperature, humidity, air flow, pressure, smoke, CO, CO₂, and refrigerant)
- **Switches** (limit, position, and pressure)
- **Transducers/Converters** (pressure, air flow, current, voltage, and pulse width)





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