

Application Guide



STE-6014



STE-6017/6019

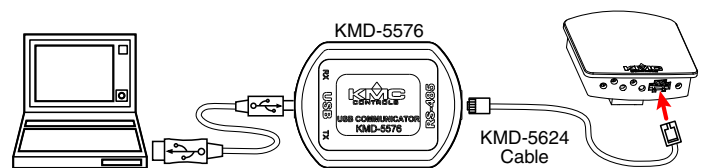


STE-6018/6020

Contents

- Models and Features 1
- PC Port Network Connection 1
- Controller Configuration 2
 - Overview 2
 - BACstage Software 2
 - BAC-A1616BC BACnet Building Controller 6
 - KMC Connect and TotalControl Software 6
 - WinControl Software 7
- Mounting Considerations 9
- Troubleshooting 9
- Accessories 9
- Specifications 9
- Important Notices 9

PC Port Network Connection



At the bottom of the modular STE-6014/6017/6018 (but not STE-6019/6020) case is an EIA-485 (formerly RS-485) data port. This port provides a temporary connection to the digital network for network setup or troubleshooting. To use the port to connect to a computer, a means of converting the EIA-485 signal to a USB signal is required. The connection depends on the software used. (See also the instructions included with those devices and software.)

- For KMDigital networks or (BACnet networks with) BACstage, use a **KMD-5576** USB Communicator (shown in the illustration above).
- For BACnet networks with KMC Connect or TotalControl, use a **BAC-5051E** BACnet router with an **HPO-5551** cable kit (see documentation for those products).

NOTE: The data port is supported with MS/TP models but not “E” Ethernet models of KMC Conquest BACnet controllers.

To access the network through the sensor’s port:

1. Connect the keyed, flat end of the interface cable to the port on the sensor.
2. Connect the other end of the cable to the interface device that converts the EIA-485 signal into the USB signal.
3. Connect the suitable cable from the interface device to the computer’s USB port. Follow the interface device’s instructions.

Models and Features

Model Number	Interface Features		Cable Connections		
	Override Button	LED Status Indicator	Screw Clamp Terminals	RJ-45 Connector	EIA-485 Data Port
STE-6014				X	X
STE-6017	X			X	X
STE-6019	X		X		
STE-6018	X	X		X	X
STE-6020	X	X	X		

NOTE: This document is primarily about using these sensors with LEGACY software and controllers (before KMC Conquest). For use with KMC CONQUEST controllers, see the **KMC Conquest Controllers Application Guide** and related documents! For more product information, see the data sheet and installation guide for the **STE-6014/6017/6018/6019/6020**.

Controller Configuration

Overview

Ensure that the corresponding 10,000 ohm pull-up resistors on the controller are selected (switched On). Consult the controller's setup instructions for information on switching on the pull-up resistors.

Controller configuration instructions are given for both WinControl and BACstage. See the relevant software section.

BACstage Software

Thermistor Input

1. In the BACstage software main menu, select *Objects > Inputs*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field (up to 32 characters) and/or *Name* field (up to 16 characters).

NOTE: No two labels or descriptions in a controller can be identical.

4. Select *Object Type: Analog* if it is not the default.
5. Select *Device Type: KMC10K Type II*.
6. Select *Units: °F* or *°C*.
7. Optionally, change the *Filter Weight* (under *More*) to the desired number of thermistor readings averaged before displaying the result. **If the (STE-6017/6018/6019/6020) override is being used, *Filter Weight* may need to be reduced down toward 1 to ensure reliable recognition of the button press, depending on the controller.**

NOTE: The button needs to be pressed and held for at least a half a second to be reliably recognized for override mode.

8. Click *End Edit*.
9. Click *Yes* for "Send Update Notification Now?"
10. In the BACstage software main menu, select *Device > Device Tables > KMC10K Type II Table*.
11. Click *Edit*.
12. Click *Defaults* (values will fill in).
13. Click *End Edit*.
14. Click *Yes* for "Send Update Notification Now?"
15. Click *OK*.

Setpoint Input

NOTE: The Custom Input property or Control Basic can be used as easier but less linear (less accurate) alternatives to tables. Download the [STE-6014/17/18/19/20 Setpoint Dial Ranging Tech Tips](#) file from the web site.

1. In the BACstage software main menu, select *Objects > Inputs*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field and/or *Name* field.
4. Select *Object Type: Analog* if it is not the default.
5. Select *Device Type > Table x (4 or 5)*.
6. Select *Units: °F* or *°C*.
7. Click *End Edit*.
8. Click *Yes* for "Send Update Notification Now?"
9. In the BACstage software main menu, select *Device > Device Tables > Table x*.
10. Click *Edit*.
11. Enter the following values in Table x:

NOTE: Instead of typing in the values from the table below, you can use a text editor and the table on page 5 of the Adobe Acrobat PDF file of this document to copy and paste the 128 lines into the appropriate section of the BACstage *.BAC panel file. See the instructions on page 4.

Index	°F Value	°C Value
1	54.0	12.2
2	54.3	12.4
3	54.6	12.6
4	54.9	12.7
5	55.2	12.9
6	55.5	13.1
7	55.8	13.2
8	56.1	13.4
9	56.4	13.6
10	56.7	13.7
11	57.1	13.9
12	57.4	14.1
13	57.7	14.3
14	58.1	14.5
15	58.4	14.7

16	58.8	14.9
17	59.1	15.1
18	59.5	15.3
19	59.9	15.5
20	60.3	15.7
21	60.7	15.9
22	61.1	16.2
23	61.5	16.4
24	61.9	16.6
25	62.3	16.8
26	62.7	17.1
27	63.2	17.3
28	63.6	17.6
29	64.1	17.8
30	64.5	18.1
31	65.0	18.3
32	65.5	18.6
33	66.0	18.9
34	66.5	19.2
35	67.0	19.4
36	67.5	19.7
37	68.1	20.1
38	68.6	20.3
39	69.2	20.7
40	69.8	21.0
41	70.4	21.3
42	71.0	21.7
43	71.6	22.0
44	72.2	22.3
45	72.9	22.7
46	73.5	23.1
47	74.2	23.4
48	74.9	23.8
49	75.6	24.2
50	76.3	24.6
51	77.1	25.1
52	77.8	25.4
53	78.6	25.9
54	79.4	26.3
55	80.3	26.8

56	81.1	27.3
57	82.0	27.8
58	82.9	28.3
59	83.8	28.8
60	84.8	29.3
61	85.8	29.9
62	86.8	30.4
63	87.8	31.0
64	88.9	31.6
65	90.0	32.2
66	90.0	32.2
67	90.0	32.2
68	90.0	32.2
69	90.0	32.2
70	90.0	32.2
71	90.0	32.2
72	90.0	32.2
73	90.0	32.2
74	90.0	32.2
75	90.0	32.2
76	90.0	32.2
77	90.0	32.2
78	90.0	32.2
79	90.0	32.2
80	90.0	32.2
81	90.0	32.2
82	90.0	32.2
83	90.0	32.2
84	90.0	32.2
85	90.0	32.2
86	90.0	32.2
87	90.0	32.2
88	90.0	32.2
89	90.0	32.2
90	90.0	32.2
91	90.0	32.2
92	90.0	32.2
93	90.0	32.2
94	90.0	32.2
95	90.0	32.2

96	90.0	32.2
97	90.0	32.2
98	90.0	32.2
99	90.0	32.2
100	90.0	32.2
101	90.0	32.2
102	90.0	32.2
103	90.0	32.2
104	90.0	32.2
105	90.0	32.2
106	90.0	32.2
107	90.0	32.2
108	90.0	32.2
109	90.0	32.2
110	90.0	32.2
111	90.0	32.2
112	90.0	32.2
113	90.0	32.2
114	90.0	32.2
115	90.0	32.2
116	90.0	32.2
117	90.0	32.2
118	90.0	32.2
119	90.0	32.2
120	90.0	32.2
121	90.0	32.2
122	90.0	32.2
123	90.0	32.2
124	90.0	32.2
125	90.0	32.2
126	90.0	32.2
127	90.0	32.2
128	90.0	32.2

12. Click *End Edit*.
13. Click *Yes* for "Send Update Notification Now?"
14. Click *OK*.

NOTE: These tables are different from the ones used in the STE-6012/6016!

Setpoint Tables to Copy into BACstage Panel File

NOTE: Instead of manually entering all the setpoint table values, you can copy them from the PDF file of this document.

1. In the BACstage software main menu, select *Device > Backup Device*.
2. Enter a file name for the BAC backup file, and click *Save*.
3. Make a copy of the BAC backup file, open the copied BAC file with a text editor, and find the Table (previously chosen) 4 or 5 listing (scroll about half-way down).

4. Open the PDF file of this document and copy the appropriate table below.
5. Replace the appropriate BAC table data with the PDF table data and save the file.
6. In the BACstage software main menu, select *Device > Restore Device*.
7. Select the edited copy of the BAC file and click *Open*.
8. Click *Select None*, select the appropriate table from the list, and click *Restore*.
9. Click *Yes* for "Send Update Notification Now?"

Fahrenheit Values

X1=54.0	X44=72.2	X87=90.0
X2=54.3	X45=72.9	X88=90.0
X3=54.6	X46=73.5	X89=90.0
X4=54.9	X47=74.2	X90=90.0
X5=55.2	X48=74.9	X91=90.0
X6=55.5	X49=75.6	X92=90.0
X7=55.8	X50=76.3	X93=90.0
X8=56.1	X51=77.1	X94=90.0
X9=56.4	X52=77.8	X95=90.0
X10=56.7	X53=78.6	X96=90.0
X11=57.1	X54=79.4	X97=90.0
X12=57.4	X55=80.3	X98=90.0
X13=57.7	X56=81.1	X99=90.0
X14=58.1	X57=82.0	X100=90.0
X15=58.4	X58=82.9	X101=90.0
X16=58.8	X59=83.8	X102=90.0
X17=59.1	X60=84.8	X103=90.0
X18=59.5	X61=85.8	X104=90.0
X19=59.9	X62=86.8	X105=90.0
X20=60.3	X63=87.8	X106=90.0
X21=60.7	X64=88.9	X107=90.0
X22=61.1	X65=90.0	X108=90.0
X23=61.5	X66=90.0	X109=90.0
X24=61.9	X67=90.0	X110=90.0
X25=62.3	X68=90.0	X111=90.0
X26=62.7	X69=90.0	X112=90.0
X27=63.2	X70=90.0	X113=90.0
X28=63.6	X71=90.0	X114=90.0
X29=64.1	X72=90.0	X115=90.0
X30=64.5	X73=90.0	X116=90.0
X31=65.0	X74=90.0	X117=90.0
X32=65.5	X75=90.0	X118=90.0
X33=66.0	X76=90.0	X119=90.0
X34=66.5	X77=90.0	X120=90.0
X35=67.0	X78=90.0	X121=90.0
X36=67.5	X79=90.0	X122=90.0
X37=68.1	X80=90.0	X123=90.0
X38=68.6	X81=90.0	X124=90.0
X39=69.2	X82=90.0	X125=90.0
X40=69.8	X83=90.0	X126=90.0
X41=70.4	X84=90.0	X127=90.0
X42=71.0	X85=90.0	X128=90.0
X43=71.6	X86=90.0	

Celsius Values

X1=12.2	X44=22.3	X87=32.2
X2=12.4	X45=22.7	X88=32.2
X3=12.6	X46=23.1	X89=32.2
X4=12.7	X47=23.4	X90=32.2
X5=12.9	X48=23.8	X91=32.2
X6=13.1	X49=24.2	X92=32.2
X7=13.2	X50=24.6	X93=32.2
X8=13.4	X51=25.1	X94=32.2
X9=13.6	X52=25.4	X95=32.2
X10=13.7	X53=25.9	X96=32.2
X11=13.9	X54=26.3	X97=32.2
X12=14.1	X55=26.8	X98=32.2
X13=14.3	X56=27.3	X99=32.2
X14=14.5	X57=27.8	X100=32.2
X15=14.7	X58=28.3	X101=32.2
X16=14.9	X59=28.8	X102=32.2
X17=15.1	X60=29.3	X103=32.2
X18=15.3	X61=29.9	X104=32.2
X19=15.5	X62=30.4	X105=32.2
X20=15.7	X63=31.0	X106=32.2
X21=15.9	X64=31.6	X107=32.2
X22=16.2	X65=32.2	X108=32.2
X23=16.4	X66=32.2	X109=32.2
X24=16.6	X67=32.2	X110=32.2
X25=16.8	X68=32.2	X111=32.2
X26=17.1	X69=32.2	X112=32.2
X27=17.3	X70=32.2	X113=32.2
X28=17.6	X71=32.2	X114=32.2
X29=17.8	X72=32.2	X115=32.2
X30=18.1	X73=32.2	X116=32.2
X31=18.3	X74=32.2	X117=32.2
X32=18.6	X75=32.2	X118=32.2
X33=18.9	X76=32.2	X119=32.2
X34=19.2	X77=32.2	X120=32.2
X35=19.4	X78=32.2	X121=32.2
X36=19.7	X79=32.2	X122=32.2
X37=20.1	X80=32.2	X123=32.2
X38=20.3	X81=32.2	X124=32.2
X39=20.7	X82=32.2	X125=32.2
X40=21.0	X83=32.2	X126=32.2
X41=21.3	X84=32.2	X127=32.2
X42=21.7	X85=32.2	X128=32.2
X43=22.0	X86=32.2	

Setpoint Variable

1. In the BACstage software main menu, select *Objects > Analog Values*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field and/or *Name* field.
4. Click in the *Units* column and select °F (Fahrenheit) or °C (Celsius).
5. Click *End Edit*.
6. Click *Yes* for “Send Update Notification Now?”
7. Click *OK*.

Override (STE-6017/6018/6019/6020 Only)

1. In the BACstage software main menu, select *Objects > Binary Values*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field and/or *Name* field.
4. Click in the *Units* column and select *Off/On* (or *No/Yes*, *Stop/Start*, *Disabled/Enabled*, *Inactive/Active* according to preference).
5. Click *End Edit*.
6. Click *Yes* for “Send Update Notification Now?”
7. Click *OK*.
8. In the BACstage software main menu, select *Objects > BASIC Programs*.
9. Click *Edit*.
10. Type in a name in the *Description* field and/or *Name* field.
11. Click *Autorun*.

12. Click *End Edit*.
13. Click *Yes* for “Send Update Notification Now?”
14. Click once in the # column.
15. Type in program lines (see the following example).

NOTE: This is only an example. Details need to fit the controller configuration.

```
10 REM ** AI3 IS STE-6017/18/19/20
    TEMPERATURE SENSOR INPUT **
20 REM ** BV3 IS OCCUPIED/UNOCCUPIED
    (ON/OFF) MODE **
30 REM ** PUSH BUTTON ON SENSOR TO
    START OVERRIDE MODE (BV2) **
40 IF+ SENSORON( AI3 ) AND NOT BV3 THEN
    START BV2
50 REM ** CHANGE DEFAULT TIMEON TO
    DESIRED AMOUNT OF OVERRIDE TIME **
60 IF TIMEON( BV2 ) > 02:00:00 THEN
    STOP BV2
70 REM ** AO7 IS SUPPLY VOLTAGE FOR
    STE-6018/6020 LED **
80 IF BV2 THEN AO7 = 10 ELSE AO7 = 0
90 END
```

16. Click *Send*.
17. Click *OK*.
18. Click *Yes* for “Execute Program Now?”
19. Click *Close*.
20. Click *OK*.

BAC-A1616BC BACnet Building Controller

Tables and Pull-Up Resistors

Select the 10K ohm pull-up resistor jumper position for the corresponding inputs. (See the Installation section of the [BAC-A1616BC Building Controller Installation and Operation Guide](#) for the correct jumper position.)

Because the Building Controller has a 0–12 VDC total input range, different tables are required than in other (0–5 VDC) KMC controllers. **Download the sensor tables (CSV) file from the KMC Controls web site and import the needed tables as described in the Tables section of the BAC-A1616BC Building Controller Installation and Operation Guide. (You must log in to see the zipped tables file on the Building Controller product page downloads.)**

Thermistor Input

The screenshot shows the 'Analog Input 10' configuration page. Key fields are circled in red: 'Device Type' (KMC Type II Deg F), 'Description' (STE-6010 Temperature), 'multiplier' (1.800000), 'offset' (32.000000), and 'Lookup Table' (2). Other visible fields include 'Object Name' (AI_10), 'Present Value' (74.58), 'Units' (degrees-F), and 'COV Increment' (1.000000).

1. In the desired Analog Input setup screen of the web page interface, select *KMC Type II Degree Fahrenheit* or *KMC Type II Degree Celsius*.
2. Select the Lookup Table for the Type II Thermistor.
3. For the Fahrenheit scale, the multiplier is 1.8 and the offset is 32. For Celsius, the multiplier is 1 and the offset is 0.
4. Click *Save*.

Setpoint Input

The screenshot shows the 'Analog Input 9' configuration page. Key fields are circled in red: 'Device Type' (no-device), 'Description' (STE-6020 Pot Setpoint), 'multiplier' (1.800000), 'offset' (32.000000), and 'Lookup Table' (4). Other visible fields include 'Object Name' (AI_09), 'Present Value' (74.20), 'Units' (degrees-F), and 'COV Increment' (1.000000).

1. In the desired Analog Input setup screen of the web page interface, select *No Device* and the Lookup Table for the STE-6014 Rotary BBC table.
2. For the Fahrenheit scale, the multiplier is 1.8 and the offset is 32. For Celsius, the multiplier is 1 and the offset is 0.
3. Click *Save*.

Override Control Basic

See the BACnet example under [Override \(STE-6017/6018/6019/6020 Only\)](#) on page 5.

KMC Connect and TotalControl Software

NOTE: See [Overview on page 2](#). Then see the Help information in KMC Connect or TotalControl.

NOTE: This document is primarily about using these sensors with LEGACY software and controllers (before KMC Conquest). For use with KMC CONQUEST controllers, see the [KMC Conquest Controllers Application Guide](#) and related documents! For more product information, see the data sheet and installation guide for the [STE-6014/6017/6018/6019/6020](#).

WinControl Software

Thermistor Input

1. In the WinControl software main menu, select *Control > Inputs*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field (up to 20 characters) and/or *Label* field (up to 8 characters).

NOTE: No two labels or descriptions in a controller can be identical.

4. Click *Units* (which opens the Configure Inputs screen).
5. Select *Type: Analog* if it is not the default.
6. Select *Deg F* (or *C*) *KMC10K Type II*.
8. Optionally, change *Format* from 0 to the desired number of temperature decimal places.
9. Optionally, change the *Average* to the desired number of thermistor readings averaged before displaying the result. **If the Override Input is being used, Average may need to be reduced down toward 1 to ensure reliable recognition of the button press, depending on the controller.**

NOTE: The up and down buttons need to be held down for at least a half a second to be reliably recognized for override mode.

10. Click *OK*.
11. Click *End Edit*.
12. Click *OK*.

Setpoint Input

1. In the WinControl software main menu, select *Control > Inputs*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field and/or *Label* field.
4. Click *Units* (which opens the Configure Inputs screen).
5. Select *Type: Analog* if it is not the default.
6. Select *Table*.
7. Click *OK*.
8. Click *End Edit*.
9. Click *OK*.
10. In the WinControl software main menu, select *Control > Tables*.
11. Click *Unused* in the first available column.
12. Select *Deg. F*. (or *Deg. C*)
13. Click *OK*.
14. Enter the following values under Table x and Deg. F (or C):

	Table x [1 or next available number]	Deg. F	Deg. C
1	0.00	54	12.2
2	0.32	58	14.4
3	0.77	62	16.7
4	1.14	66	18.9
5	1.47	70	21.1
6	1.74	74	23.3
7	1.97	78	25.6
8	2.16	82	27.8
9	2.31	86	30.0
10	2.42	90	32.2
11	5.00	90	32.2

15. Click *OK*.

Setpoint Variable

1. In the WinControl software main menu, select *Control > Setpoint/Variables*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field and/or *Label* field.
4. Click *Units* (which opens the Configure Variables screen).
5. Select *Type: Analog* if it is not the default.
6. Select *Degrees Fahrenheit* (or *Celsius*).
7. Set *Format* to 0.
8. Click *OK*.
9. Click *End Edit*.
10. Click *OK*.

Override Input (STE-6017/6018/6019/6020 Only)

1. In the WinControl software main menu, select *Control > Setpoint/Variables*.
2. Click *Edit*.
3. Type in a name in the appropriate *Description* field and/or *Label* field.
4. Click *Units* (which opens the Configure Variables screen).
5. Select *Type: Digital*.
6. Select *Off/On* (or *No/Yes*, *Stop/Start*, *Dis/Enabled* according to preference).
7. Click *OK*.
8. Click *End Edit*.
9. Click *OK*.
10. In the WinControl software main menu, select *Control > Control Basic*.
11. Click *Edit*.
12. Type in a name in the *Description* field and/or *Label* field.
13. Place an x in the *On* column.
14. Click *End Edit*.
15. Click once in the # column.
16. Type in program lines (see the following example).

NOTE: This is only an example. Details need to fit the controller configuration.

```
10 REM ** STE-6017/18/19/20 OVERRIDE **
20 REM ** VAR5 IS OCCUPIED/UNOCCUPIED
   (ON/OFF) MODE **
```

```
30 IF NOT VAR5 THEN GOSUB 50
40 END
50 REM ** IN3 IS ROOM TEMP VOLTAGE FROM
   SENSOR (FROM INPUT SCREEN) **
60 REM ** VAR4 IS OVERRIDE (FROM
   SETPOINTS/VARIABLES SCREEN)**
70 REM ** USE BUTTON ON SENSOR TO START
   OVERRIDE (VAR4) **
80 IF+ SENSOR-ON( IN3 ) THEN START VAR4
90 REM ** OUT7 IS SUPPLY VOLTAGE FOR
   STE-6018/6020 LED **
100 IF VAR4 THEN OUT7 = 10 ELSE OUT7 =
    0
110 REM ** CHANGE DEFAULT TIME-ON TO
   DESIRED AMOUNT OF OVERRIDE TIME **
120 IF TIME-ON( VAR4 ) > 02:00:00 THEN
   STOP VAR4
130 RETURN
```

NOTE: For an additional sample application of programming override timers, adapt the information in the Application Note AN0504F Programming Override Timers section of the [Digital Designer's Guide](#).

Mounting Considerations

Sensors must NOT be:

- Mounted on an exterior wall.
- Mounted on or near a large thermal mass (e.g., concrete block wall).
- Blocked from normal air circulation by obstructions.
- Exposed to heat sources (e.g., lights, computers, copiers, or coffee makers) or to sunlight (at **any** time of the day).
- Exposed to drafts from windows, diffusers, or returns.
- Exposed to air flow through the conduit (from leaks in plenum ducts)—put sealant inside the conduit to block air flow.

Troubleshooting

- Be sure the 10,000 ohm pull-up resistors on the controller board are turned **ON**.
- Check wiring. To prevent excessive voltage drop, use a conductor size that is adequate for the wiring length!
- Check sensor configuration and tables in the controller.
- Check voltage from the controller.
- Check that the sensor is **NOT** mounted on an exterior wall, mounted on or near a large thermal mass, blocked from normal air circulation by obstructions, exposed to heat sources or to sunlight, exposed to drafts from windows or air vents, or exposed to air flow through the conduit from leaks in plenum ducts. (See the Mounting Considerations section above.)

Specifications

Connections	Clamp (screw-type) terminals or modular RJ-45 jack (see Models and Features on page 1)
Material	Flame-retardant plastic, light almond or white
Weight	Approx. 1.25 oz. (35 grams)
Sensor	
Type	Type II thermistor
Accuracy	$\pm 0.36^{\circ}\text{ F}$ ($\pm 0.20^{\circ}\text{ C}$)
Resistance	10,000 ohms @ 77° F (25° C)
NTC	4.37%/° C @ 25° C
Dissipation Constant	2 mW/° C
Temp. Reading	Thermistor resistance
Rotary Setpoint Pot.	0–10K ohms $\pm 20\%$ (54–90° F or 12–32° C) linear
Optional Button	One momentary push button, shunts temperature sensor to signal override condition
Optional LED	Power requirements, 10 VDC (12 VDC max); 5 mA max. current draw at 12 VDC
Environmental Limits	
Operating	34° to 125° F (1.1° to 51.6° C)
Shipping	–40° to 140° F (–40° to 60° C)
Humidity	0 to 95% RH non-condensing

Accessories

HMO-6036	Universal Backplate, Almond
HMO-6036W	Universal Backplate, White
KMD-569x	Cable: STE-6014/6017/6018 modular to KMC legacy BAC-58x1 and BAC-7xxx BACnet controllers (KMD-5693 = 25 ft.; KMD-5694 = 50 ft.; KMD-5695 = 75 ft.)
HPO-9005	Adapter for STE-6019 (but not STE-6020) sensors to connect (with an Ethernet patch cable) the sensors' terminals to the BAC-59xx/9xxx controllers' sensor ports.
HSO-9001	Cable: Ethernet, 50', STE-6014/6017 Modular to KMC Conquest controllers
HSO-9011	Cable: Ethernet, 50', Plenum Rated, STE-6014/6017 Modular to KMC Conquest controllers
HSO-9012	Cable: Ethernet, 75', Plenum Rated, STE-6014/6017 Modular to KMC Conquest controllers
BAC-5051E	BACnet Router
HPO-5551	Conquest Router Tech Cable Kit
KMD-5576	USB Communicator
SP-001	Flat Blade and Hex End Screwdriver

Important Notices

The material in this document is for information purposes only. **The contents and the product it describes are subject to change without notice.** KMC Controls, Inc. makes no representations or warranties with respect to this document. In no event shall KMC Controls, Inc. be liable for any damages, direct or incidental, arising out of or related to the use of this document.

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