BACview®
Installation and User Guide

OEMCtrl®

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Introduction

You can use the following items as a local user interface to an OEMCtrl® controller. These items let you access the controller information, read sensor values, and test the controller.

Connect...	To the controller's...	For...
BACview®6 Handheld keypad/display device	Local Access port	Temporary user interface for start-up
Virtual BACview® software running on a laptop	Local Access port*	Temporary user interface for start-up
BACview®6 keypad/display device	Rnet port	Permanent user interface
BACview®5 keypad/display device	Rnet port	Permanent user interface

* Requires a USB Link

These are accessory items that do not come with the controller.

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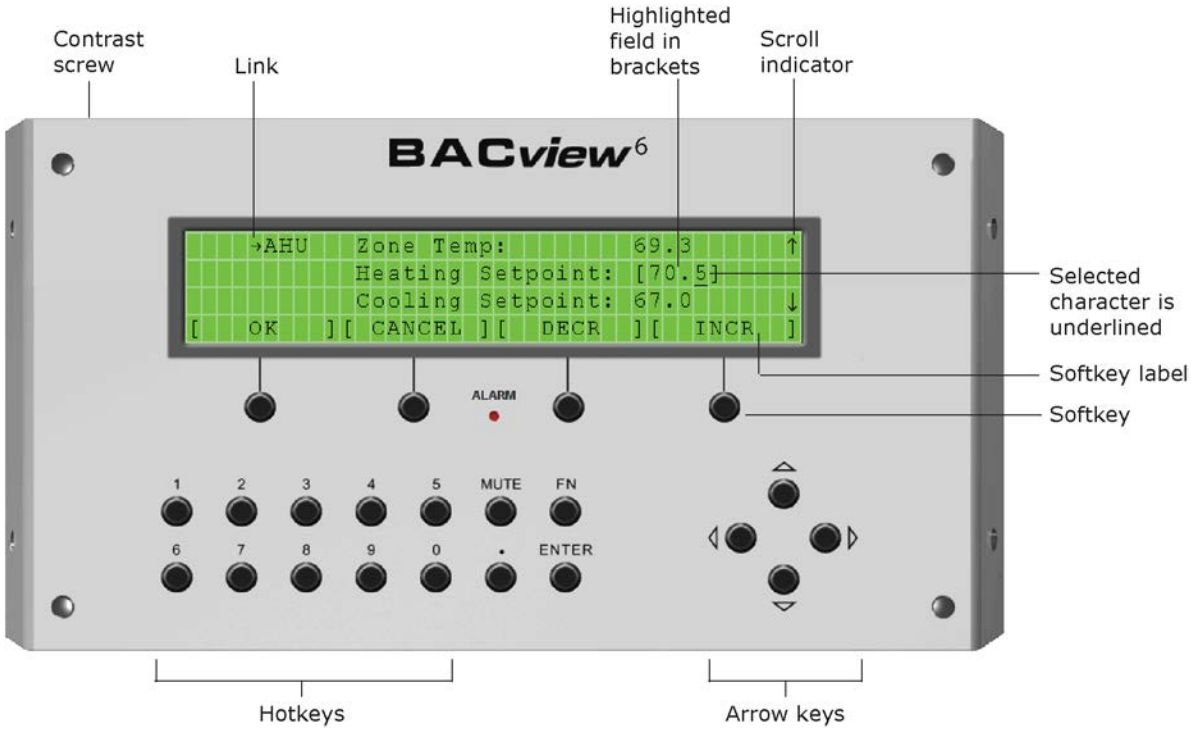
BACview®6 Handheld device

You can use a BAC*view*®[6] Handheld device (part #BV6H) to start up, configure, and troubleshoot a controller.



Specifications

Power required	+12 Vdc @ 200 mA
Power supply	Supplied by the 4-conductor Rnet cable from the controller.
Backlit LCD display	4-line by 40-character display
Cable	6 ft. (1.8 m) cable to connect to controller's Local Access port.
Protection	15 KV ESD protection to the enclosure. Built-in solid-state polyswitch protection on incoming power. Polyswitch is not replaceable; it will reset itself if the condition that caused a fault returns to normal.
Environmental operating range	32–120°F (0–48.9°C), 10–90% relative humidity, non-condensing
Overall dimensions	Width: 9 5/8 in. (24.5 cm) Height: 4 15/16 in. (12.5 cm) Depth: 1 in. (2.5 cm)
Weight	1.2 lbs (0.54 kg)
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE

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To connect to a controller

Insert the BAC*view*®[6] Handheld's cable connector into the controller's **Local Access** port connector.

Using the BACview®6 Handheld device

NOTE For information on the BAC*view*® screens for a specific controller, see the manufacturer's documentation. For information on system screens that are common to most controllers, see *BACview® system screens* (page 17).

To activate the device

The BAC*view*®[6] Handheld screen goes dim after inactivity. Press any key except **MUTE** or **FN**, to activate the screen.

NOTE You can change the length of inactivity on the **KEYPAD** screen.

To log in

A BAC*view*® screen is programmed with one of the following password levels.

A screen with this password level...	Can be accessed by...	For...
None	Anyone	Viewing only
User	An operator logged in with the User or Admin password*	Viewing or editing
Admin	An operator logged in with the Admin password*	Viewing or editing

* **User** and **Admin** passwords are defined by the manufacturer. However, someone with the Admin password can change the User password on the *User password screen* (page 17).

When you are prompted to log in:

1. Use the numeric keys to enter the 4-digit password.
2. Press the **OK** softkey.

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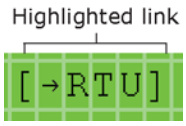
To navigate

To move within a screen, use the arrow keys.

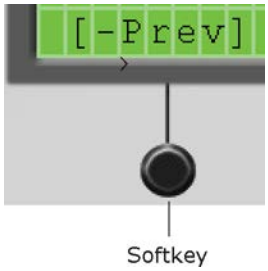
To jump to another screen, do one of the following:

- Use the arrow keys to highlight a link, then press **Enter**.



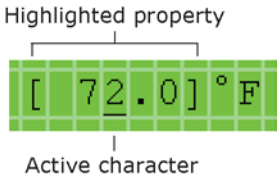
- Press a softkey.

  NOTE A **[Prev]** link jumps to the previous screen.



To change a property

1 Use the arrow keys to highlight the property value you want to edit.



2 Press **ENTER**.

  NOTE If you have not previously logged in, you will be prompted for your password. See To log in.

3 Press the left or right arrow key to move the cursor under the character you want to change.

4 Do one of the following:

  - Press a number key.
  - Press the **DECR** or **INCR** softkey to cycle through binary or multi-state options or to decrease or increase a number.
  - Press the **CANCEL** softkey to restore the original value.

5 Optional: To edit another property in this same screen, repeat steps 1 through 4.

6 Press the **OK** softkey to save all changes to the screen.

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To obtain a controller status report

To obtain a status report (Modstat) for the connected controller, press **FN + .** (the period key). Use the arrow keys to scroll through the report.

To handle alarms

If the alarm features are set up, the BAC*view*® device will do the following when it receives an alarm from the controller:

- Turn on the Alarm LED
- Turn on the audible alarm
- List the alarm in the **Active Alarms** list on the **Alarms** screen

When the BAC*view*® device receives the alarm's return-to-normal, it moves the alarm from the **Active Alarms** list to the **Returned-To-Normal** list. The audible alarm and LED turn off after all active alarms have returned to normal.

To manually turn off alarms before the BAC*view*® device receives the return-to-normal, you can:

- Press **MUTE** to silence the alarm.
- Press **FN**+**MUTE** to silence the alarm, turn off the LED, and move all alarms in the **Active Alarms** list to the **Manually Cleared** list.

To adjust the display's brightness

To adjust the contrast of the display, turn the contrast screw on top of the BAC*view*®6 Handheld device clockwise to lighten the display or counterclockwise to darken it.

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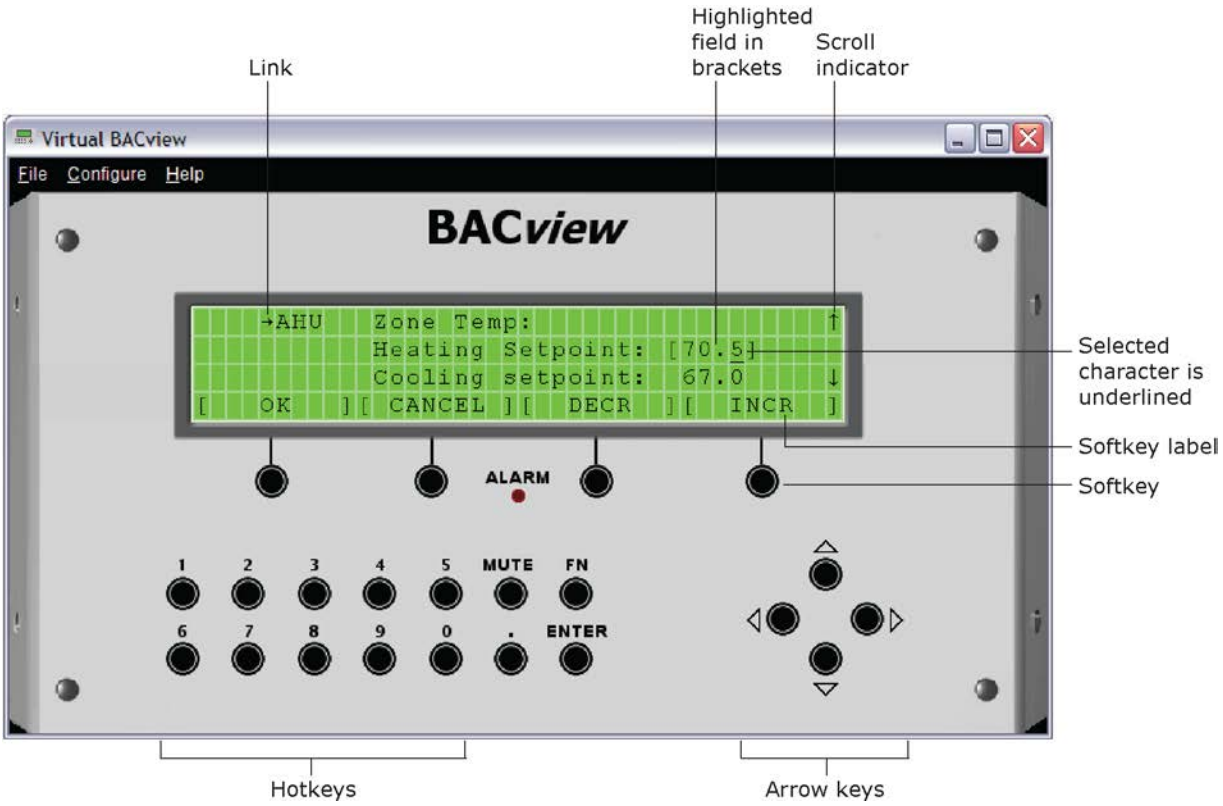
Virtual BACview® application

The Virtual BAC*view*® application simulates the BAC*view*®[6] Handheld keypad/display device. Run the Virtual BAC*view*® application on a laptop that is connected to the controller.

NOTE The manufacturer will supply you with the program.



To connect a laptop to the controller

CAUTIONS

- Maintain polarity when controllers share power.
- Failure to maintain polarity while using the USB Link on a computer that is grounded via its AC adapter may damage the USB Link and the controller.

PREREQUISITES

- The controller must have been downloaded by the manufacturer
- Laptop with USB port
- USB Link (Part #USB-L)

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Using a USB Link

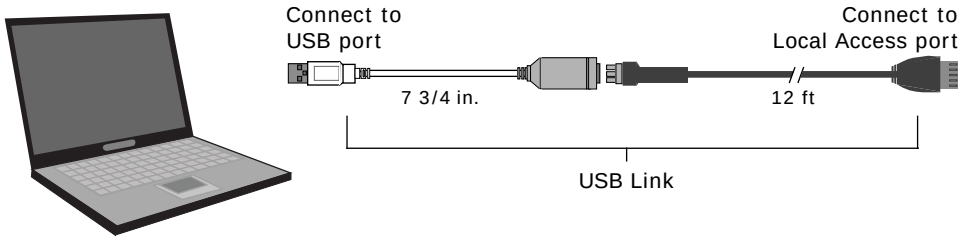
1 If your computer does not already have the USB Link driver installed, install it before you connect the USB Link to your computer.

NOTE If needed, you can get the latest driver from *http://www.silabs.com/products/mcu/Pages/USBtoUARTBridgeVCPDrivers.aspx*.

a) Put the USB Link Driver CD into your laptop.

b) Run the .exe to install the driver. Accept all of the wizard's default settings.

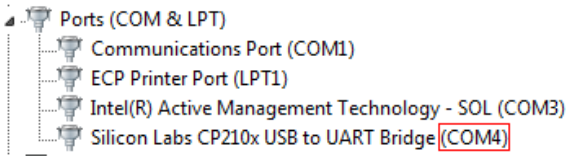
2 Connect the USB-Link to the computer and to the controller's **Local Access** port.



3 Start the Virtual BAC*view*® application.

4 In the **Row Count** field, enter the number of screen rows you want displayed (100 maximum).

5 In the **Comm Port** field, select the laptop's comm port that the USB Link is connected to. To find the port number, select **Start** > **Control Panel** > **System** > **Hardware** > **Device Manager** > **Ports (Com & LPT)**. The COM port number is beside **CP210x USB to UART Bridge**.



6 Click **OK**.

Using the Virtual BACview® application

To perform actions, you can click the keys on the Virtual BAC*view*® interface or you can use their keyboard equivalents. Hover your cursor over a key to see its keyboard equivalent.

NOTE For information on the BAC*view*® screens for a specific controller, see the manufacturer's documentation. For information on system screens that are common to most controllers, see *BACview® system screens* (page 17).

To activate the application

The Virtual BAC*view*® application displays the standby screen after inactivity. Click any key except **MUTE** or **FN**, to activate the screen.

NOTE You can change the length of inactivity on the **KEYPAD** screen.

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To log in

A BAC*view*® screen is programmed with one of the following password levels.

A screen with this password level...	Can be accessed by...	For...
None	Anyone	Viewing only
User	An operator logged in with the User or Admin password*	Viewing or editing
Admin	An operator logged in with the Admin password*	Viewing or editing

* **User** and **Admin** passwords are defined by the manufacturer. However, someone with the Admin password can change the User password on the *User password screen* (page 17).

When you are prompted to log in:

1 Use the numeric keys to enter the 4-digit password.

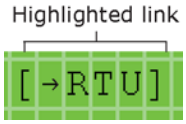
2 Press the **OK** softkey.

To navigate

To move within a screen, click the arrow keys.

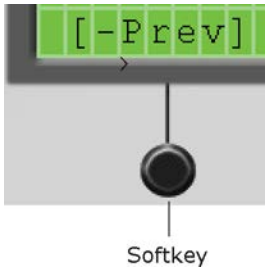
To jump to another screen, do one of the following:

- Click the arrow keys to highlight a link, then click **Enter**.



- Click a softkey.

  NOTE A **[Prev]** link jumps to the previous screen.



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To change a property

1 Use the arrow keys to highlight the property value you want to edit.

2 Click **ENTER**.

NOTE If you have not previously logged in, you will be prompted for your password. See To log in.

3 Click the left or right arrow key to move the cursor under the character you want to change.

4 Do one of the following:

- Click a number key.
- Click the **DECR** or **INCR** softkey to cycle through binary or multi-state options or to decrease or increase a number.
- Click the **CANCEL** softkey to restore the original value.

5 Optional: To edit another property in this same screen, repeat steps 1 through 4.

6 Click the **OK** softkey to save all changes to the screen.

To obtain a Modstat report

To obtain a Modstat report that shows the status of the connected controller, hold down **Ctrl** and click **.** (the period key). Use the arrow keys to scroll through the report.

To handle alarms

If the alarm features are set up, the Virtual BAC*view*® application does the following when it receives an alarm from the controller:

- Turn on the Alarm LED
- Turn on the audible alarm
- List the alarm in the **Active Alarms** list on the **Alarms** screen

When the Virtual BAC*view*® application receives the alarm's return-to-normal, it moves the alarm from the **Active Alarms** list to the **Returned-To-Normal** list. The audible alarm and LED turn off after all active alarms have returned to normal.

To manually turn off alarms before the Virtual BAC*view*® application receives the return-to-normal, you can:

- Click **MUTE** to silence the alarm.
- Hold down **Ctrl** and click **MUTE** to silence the alarm, turn off the LED, and move all alarms in the **Active Alarms** list to the **Manually Cleared** list.

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To change the number of screen rows

1. Select **File** > **Restart**.
2. Type the number of rows in the **Row Count** field.

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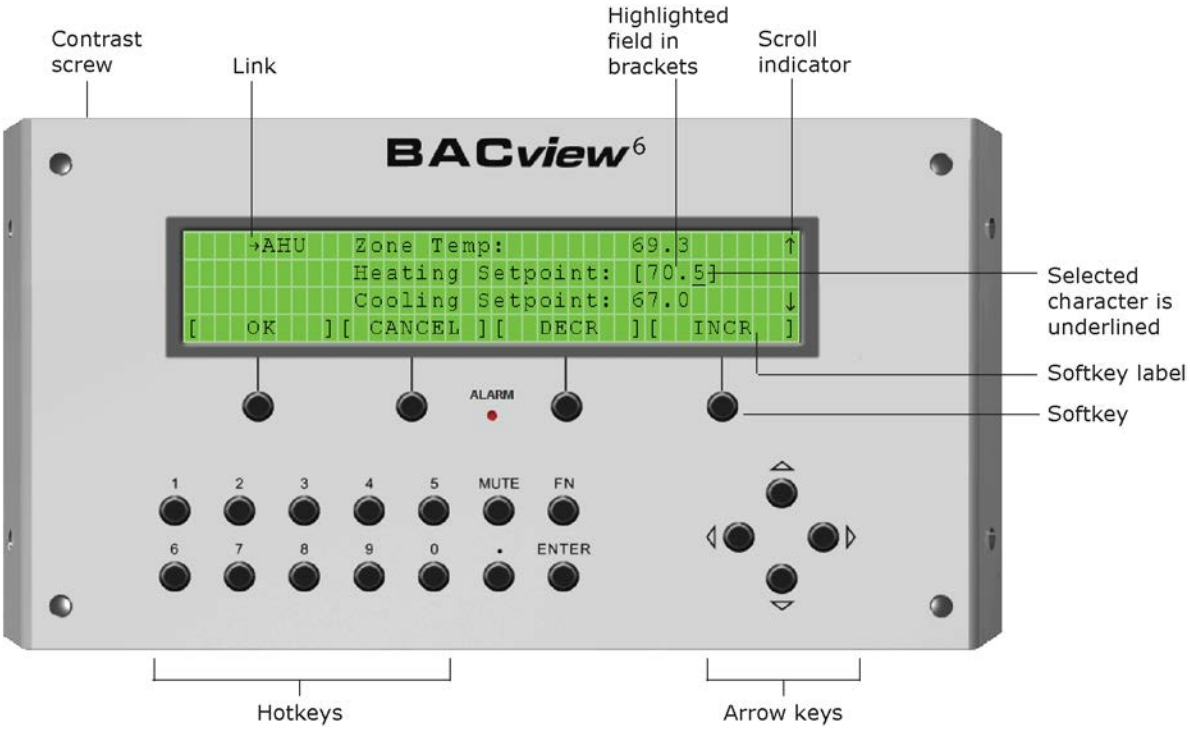
The BACview®6 device

You can use a BAC*view*®[6] device as a permanent user interface to a controller.

You connect the BAC*view*®[6] device to the controller's Rnet. The BAC*view*®[6] device can share the Rnet with RS or ZS sensors and a second BAC*view*®[6] device, with no more than 6 devices total on the Rnet. Wire the devices in a daisy-chain or hybrid configuration.

NOTE The BAC*view*®[6] device and Equipment Touch cannot reside on the same Rnet communication network.



Specifications

Power required	+12 Vdc @ 200 mA
Power supply	Supplied by the 4-conductor Rnet cable from the controller. **NOTE** To use 2 BAC*view* devices, you must provide an external power supply for the second device.
Backlit LCD display	4-line by 40-character display
Protection	15 KV ESD protection to the enclosure. Built-in solid-state polyswitch protection on incoming power. Polyswitch is not replaceable; it will reset itself if the condition that caused a fault returns to normal.
Mounting	Wall or panel mounting. Remote mounting up to 500 feet. Standard "J" box may be used.

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Environmental operating range	32–120°F (0–48.9°C), 10–90% relative humidity, non-condensing	
Overall dimensions	Width: Height:	9 5/8 in. (24.5 cm) 4 15/16 in. (12.5 cm)
Weight	1.2 lbs (0.54 kg)	
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE	

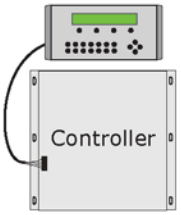
Mounting the BACview6® device

⚠ Caution!

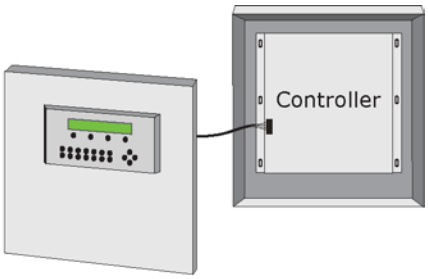
If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

You can mount the BAC*view*®6 device:

- In the panel above the controller
- On the panel door
- On a wall up to 500 feet from the controller



BAC*view* device mounted above controller



BAC*view* device mounted on panel door

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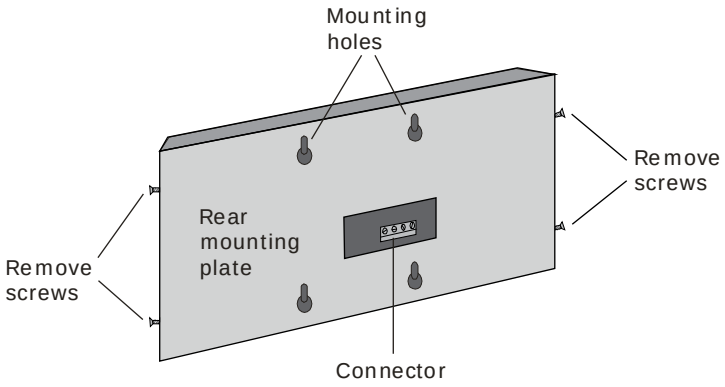
To mount

⚠ Caution!

The BAC*view*®[6] device is powered by a Class 2 power source. Properly isolate the BAC*view*®[6] device from non-Class 2 circuits in the same control panel.

1 Remove the 4 screws on the sides of the device to remove the rear mounting plate.



2 Using the rear mounting plate as a template, drill 4 holes in the surface where you are mounting the BAC*view*® device, then insert 4 screws in the holes.

3 If mounting the BAC*view*® device on a panel door, use the cutout in the rear mounting plate as a template to cut a hole in the panel door for the cable to pass through.

4 Reattach the rear mounting plate.

5 Wire the BAC*view*® device to the controller. See *Wiring the BACview® device* (page 5, page 13).

6 Hang the BAC*view* device on the 4 mounting screws.

NOTE If mounting above the controller or on a wall, pull the cable out to the side of the BAC*view* device without bending or pinching the cable beneath it.

Wiring the BACview®6 device

Rnet wiring specifications

NOTE Use the specified type of wire and cable for maximum signal integrity.

Description	4 conductor, unshielded, CMP, plenum rated cable
Conductor	18 AWG
Maximum length	500 feet (152 meters)
Recommended coloring	Jacket: White Wiring: Black, white, green, red
UL temperature rating	32–167°F (0–75°C)

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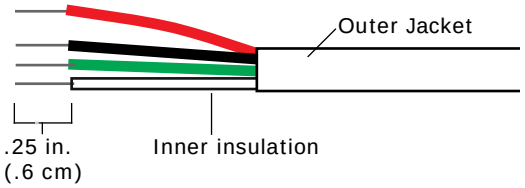
Voltage	300 Vac, power limited
Listing	UL: NEC CL2P, or better

To wire the BACview® device

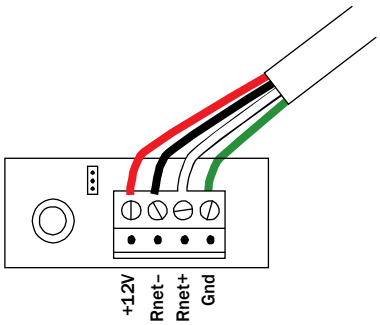
1 Turn off the controller's power.

2 Pull the screw terminal connector from the BAC*view*® device.

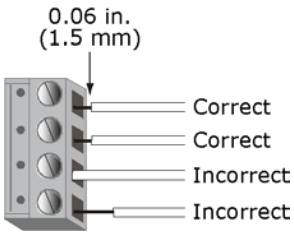
3 Partially cut, then bend and pull off the outer jacket of the Rnet cable(s). Do not nick the inner insulation. Strip about .25 inch (.6 cm) of the inner insulation from each wire.



4 Insert the other 4 wires into the BAC*view*®[6] device's screw terminal connector. If wiring 2 cables, insert like-colored wires into each terminal.



CAUTION Allow no more than .06 inch (1.5 mm) bare communication wire to protrude. If bare communication wire contacts a metal surface other than the terminal block, the sensor may not communicate correctly.



5 Insert the screw terminal connector into the BAC*view*®[6] device with the screw heads facing out.

NOTE If mounting the BAC*view*®[6] device on a panel door, feed the cable through the door cutout.

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6 Connect the other end of the cable to the controller's **Rnet** port or to an RS or ZS sensor.

NOTES

- Insert the shield wire with the ground wire into the controller's **GND** terminal.
- Use the same polarity throughout the Rnet.

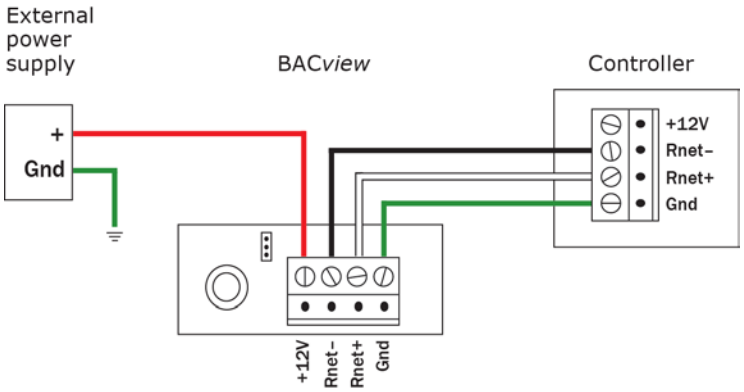
7 Turn on the controller's power.

Wiring 2 BACview devices to the Rnet

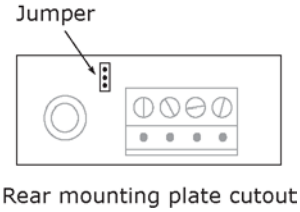
Two BAC*view* devices on an Rnet display the same screen.

The first BAC*view* device on an Rnet is powered by the controller. You must provide an external power supply for a second device.

CAUTION The BAC*view* device is powered by a Class 2 power source. Take appropriate isolation measures when mounting it in a control panel where non-Class 2 circuits are present.



Set the address of each device by putting one device's jumper in the top position and the other's jumper in the bottom position.



Rear mounting plate cutout

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Using the BACview®6 device

The instructions to use the BAC*view*®6 or BAC*view*®5 device are the same as those for the BAC*view*®6 Handheld device. See Using the BAC*view*®6 Handheld device.

NOTE For information on the BAC*view*® screens for a specific controller, see the manufacturer's documentation.

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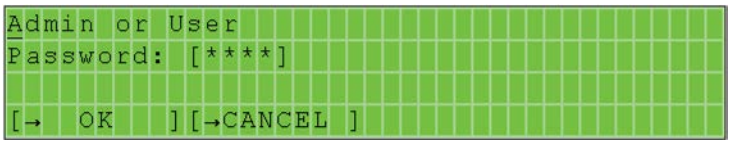
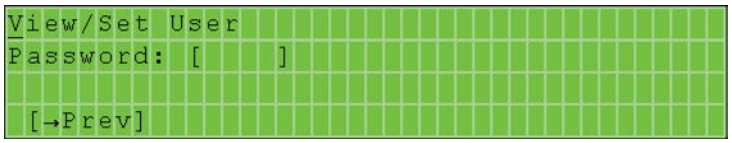
BACview® system screens

When you are viewing a controller's BAC*view*® screens, most of the screens are specific to the controller. However, you may also see the system screens described below that are common to most controllers.

For information on the controller-specific screens, see the *Points/Properties* appendix in the controller's *Installation and Startup Guide*.

NOTES

- If a screen has more rows than can be displayed, use the arrow keys to scroll through the screen.
- Pound signs (#####) indicate that a value has too many digits to display in the existing field.

Screen	Description
Standby	For: All controllers Displays when the BAC*view*® device has had no operator activity for the length of time specified on the **Keypad** screen described below.
Home	For: All controllers Displays if you press a key while the standby screen is showing.
Login	For: All controllers Navigate to: **Login** Displays if you select the **Login** link, or if you select a screen that requires a password. See To log in. 
User password	For: All controllers Navigate to: **UserPw** Lets the Administrator set up a 4-digit user-level password that restricts access to certain screens. 

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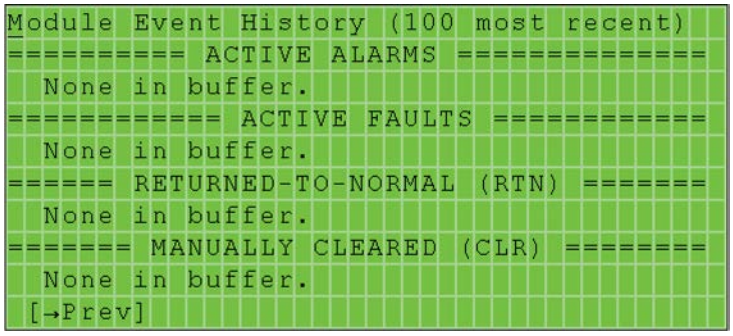
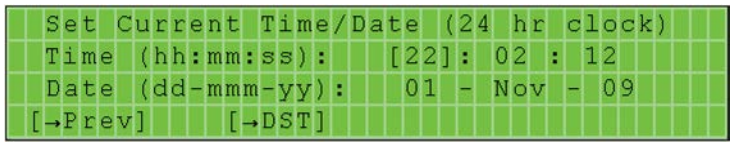
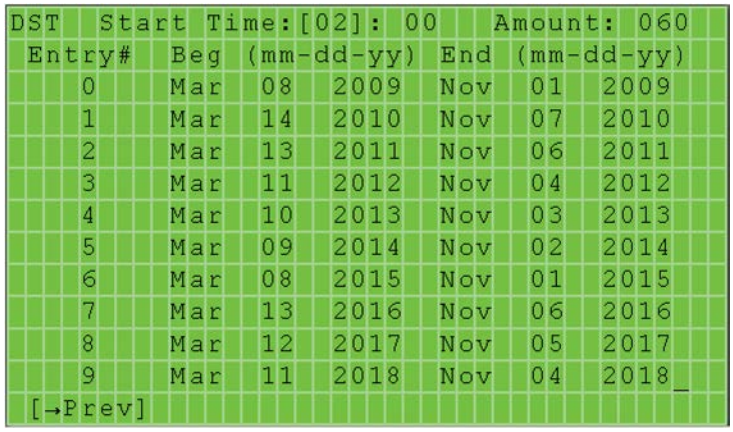
Screen	Description
Alarm	For: All controllers Navigate to: **Alarm** Displays the 100 most recent alarms received by the controller. 
Clock set	For: All controllers Navigate to: **Clockset** Lets the Administrator make changes to the controller's real time clock. However, if a router is on the network, the time set in the router takes precedence over the time set on this screen. 
DST	For: All controllers Navigate to: **Clockset** > **DST** Lets an operator adjust the beginning and ending dates for daylight saving time. 

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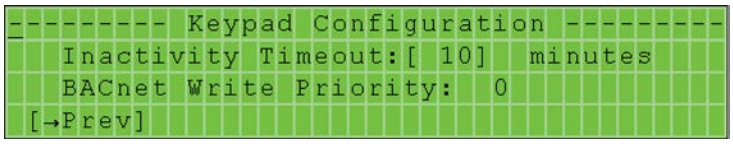
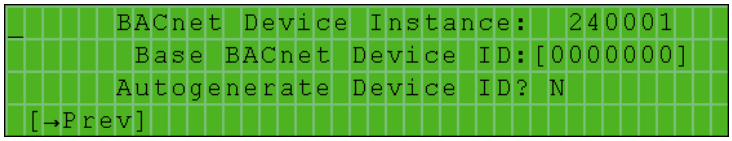
Screen	Description
Keypad	For: All controllers Navigate to: **Keypad** Lets you define: • The amount of time (255 min. maximum) of inactivity after which the *standby* screen displays and, if applicable, the backlight on a BAC*view*®[6] device turns off. **NOTE** This time can also be defined in the module driver. • The priority level (0-16), that the BAC*view*® device uses to write BACnet commandable properties to a controller. **BACnet Priorities:** 0 = Relinquish Default (Writes this as the default value for the controller) 1 = Munual Life Safety (Highest priority) 2 = Automatic Life Safety 3 = Available 4 = Available 5 = Critical Equipment Control 6 = Minimum ON/OFF 8 = Manual Operator 9 = Available 10 = Available 11 = Available 12 = Available 13 = Available 14 = Available 15 = Available 16 = Available (Lowest priority) **NOTE** The value that is written from the BAC*view*® device is always written to the controller. If a priority of 1-16 is specified, other BACnet devices must write at a priority equal to or greater than the priority specified by the BAC*view*® device. **EXAMPLE** The Heating Setpoint is written to the controller by a BAC*view*® device at Priority 9. Another BACnet device writes the Heating Setpoint to the controller at Priority 16. This value will NOT overwrite the BAC*view*® value since it was written at a lower priority (16) than the BAC*view*® priority (9). 
BACnet	For: All controllers Navigate to: **BACnet** Lets you view or edit the controller's **BACnet Device Instance** number. This is a unique number that is typically autogenerated. However, if you need to use a custom number, set **Autogenerate Device ID** to **N**, then enter your custom **BACnet Device Instance** number. 

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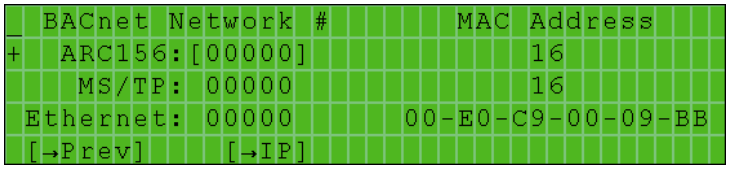
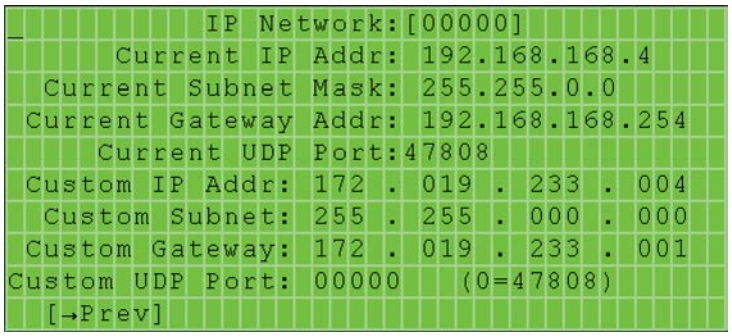
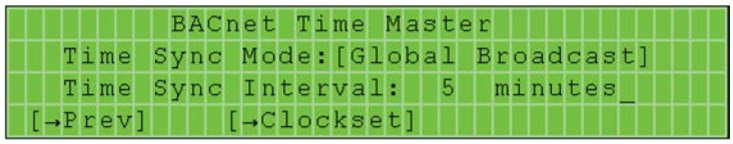
Screen	Description
Router	For I/O Flex 6126, I/O Pro 812u, and OEMPrtl Pro Navigate to: **Router** Lets you view or edit the MS/TP network number and the router's address.  The [–>IP] link jumps to the following screen.
IP	For: I/O Pro 812u, and OEMPrtl Pro Navigate to: **IP** Lets you view or edit network addresses. 
BACnet Time Master	For: All controllers Navigate to: **TimeMstr** The network should have only one BACnet Time Master that issues time broadcasts. Set **Time Sync Mode** to: • **No Broadcast** if this controller is not the BACnet Time Master. • **Local Broadcast** to have the controller send time broadcasts only to controllers on his locally connected MS/TP network. • **Global Broadcast** to have the controller send time broadcasts to all controllers and all MS/TP networks in the system. Set **Time Sync Interval** to how often the time broadcast should be sent (1-9999 minutes). 
Local Schedule	For: All controllers Navigate to: **Sched** See Setting local schedules.

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Setting local schedules

Using a BAC*view*® device, you can set local occupancy schedules directly in a controller. These schedules can be used in a stand-alone controller or used to start up of a network controller.

To set up schedules in a BAC*view*® device, first define a schedule for each day of the week and then define schedules for the exceptions, such as holidays.

NOTES

- To set schedules in a BAC*view*® device, you must enable the **Occupancy Schedules** property on the **Unit Configuration** screen. From the **Home** screen, go to **CONFIG** > **UNIT**.
- A network schedule will overwrite a local schedule that was set up in a BAC*view*® device.

To set up a weekly schedule

You can set up a schedule and apply it to different days of the week. For example, you could set up one schedule for Monday through Thursday, a second schedule for Friday, and a third schedule for Saturday and Sunday.

To set up a schedule:

1 From the **Home** screen, navigate to **CONFIG** > **Sched** > **schedule_schedule** > **Weekly schedule** > **Mon** (or any day of the week), then press **Enter**. For help, see *To navigate in a BACview® device* (page 4) or *To navigate in a Virtual BACview® application* (page 8). (page 8)

2 Define the time of each transition during the day from off (unoccupied) to on (occupied) and vice versa:

a) Highlight **Add/Del**, then press **Enter**.

b) Use the **INCR** softkey to change the value to **Add**, then press **Enter**.

c) The 12:00 am state is always the first transition. Change the 12:00 am state if it should be **On**. For help, see *To change a property in a BACview® device* (page 4) or *To change a property in the Virtual BACview® application* (page 9).

d) Highlight **Add/Del**, then press **Enter**.

e) Use the **INCR** softkey to change the value to **Add**, then press **Enter**.

f) Change the time and state of the new transition.

g) Repeat steps d through f until you have added all transitions for the day.

NOTES

- To delete a transition, highlight **Add/Del** in that row, press **Enter**, use the **DECR** softkey to change the value to **Delete**, then press **Enter**.
- To create a 24-hour off or on schedule, define only the 12:00 am state.

3 Press the **Continue** softkey.

4 If the schedule applies to another day of the week, highlight the field below the day, press **Enter**, use the **INCR** softkey to change the value to **X**, then press **Enter**.

5 Press the **Save** softkey.

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To set up exception schedules

You can set up exception schedules that will override the regular schedules. For example, you can set up a schedule for the January 1, 2014 holiday that will override the regular Friday schedule.

To set up an exception schedule:

1 From the **Home** screen, navigate to **CONFIG** > **Sched** > **schedule_schedule** > **Exceptions**. For help, see *To navigate in a BACview® device* (page 4) or *To navigate in a Virtual BACview® application* (page 8).

NOTE The screen shows any existing exceptions. To delete an exception, highlight **Del**, press **Enter**, use the **INCR** softkey to change the field to **Yes**, then press **Enter**.

2 Press the **Add** softkey.

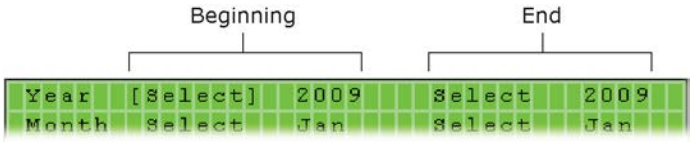
3 Highlight the type of exception you want.

Exception type...	Lets you define an exception schedule for...
Date	A specific date such as a holiday, or a recurring date such as the first day of every month.
Date Range	A specific date range such as January 1, 2013 through January 5, 2013, or a recurring date range such as the 1st through the 5th of every month.
Week-N-Day	A specific week in a month such as the third week in January, and/or a specific day of the week such as Tuesdays in January.
Calendar Reference	For future use

4 Press **Enter**.

a) Set each field (Year, Month, etc.) as needed. See table below. For help, see *To change a property in a BACview®[6] device* (page 4) or *To change a property in the Virtual BACview® application* (page 9).

NOTE For a Date Range exception, you must define the beginning and end of the range.



5 Press the **Continue** softkey.

6 The default priority is 16. If 2 exception schedules will be used on the same day and have any time periods with conflicting states, assign a higher priority to the schedule that should be followed during the conflicting periods. To do this, change 16 to a lower value.

7 Define the time of each transition during the day from off (unoccupied) to on (occupied) and vice versa:

a) Highlight **Add/Del**, then press **Enter**.

b) Use the **INCR** softkey to change the value to **Add**, then press **Enter**.

c) The 12:00 am state is always the first transition. Change the 12:00 am state if it should be **On**. For help, see *To change a property in a BACview® device* (page 4) or *To change a property in the Virtual BACview® application* (page 9).

d) Highlight **Add/Del**, then press **Enter**.

e) Use the **INCR** softkey to change the value to **Add**, then press **Enter**.

f) Change the time and state of the new transition.

g) Repeat steps d through f until you have added all transitions for the day.

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NOTES

- To delete a transition, highlight **Add/Del** in that row, press **Enter**, use the **DECR** softkey to change the value to **Delete**, then press **Enter**.
- To create a 24-hour off or on schedule, define only the 12:00 am state.

8 Press the **Save** softkey.

To set the...	To...	Do the following...
Year	**Any** year	1. Highlight **Select**, then press **Enter**. 2. Use **INCR** to change the field to **Any**, then press **Enter**.
	A specific year	1. Highlight **2009**, then press **Enter**. 2. Change the date, then press **Enter**.
Month	**Even**, **Odd**, or **Any**	1. Highlight **Select**, then press Enter. 2. Use **INCR** to change the field to **Even**, **Odd**, or **Any**, then press **Enter**.
	A specific month	1. Highlight **Jan**, then press **Enter**. 2. Use **INCR** to change the month, then press **Enter**.
Day	**Last** or **Any**	1. Highlight **Select**, then press Enter. 2. Use **INCR** to change the field to **Last** or **Any**, then press **Enter**.
	A specific date	1. Highlight **1**, then press **Enter**. 2. Change 1 to the number you want, then press **Enter**.
DOW (day of week)	**Any**	Leave the default.
	A specific day of the week	1. Highlight **Any**, then press **Enter**. 2. Use **INCR** to change the field to **Select**, then press **Enter**. 3. Highlight **Mon**, then press **Enter**. 4. Use **INCR** to change the day of the week, then press **Enter**.
Week	**Any**	Leave the default.
	Last	1. Highlight **Any**, then press **Enter**. 2. Use **INCR** to change the field to **Last**. 3. Press **Enter**.
	A week number (Ex: 2nd week of the month)	1. Highlight **Any**, then press **Enter**. 2. Use **INCR** to change the field to **Select**, then press **Enter**. 3. Highlight **1**, press **Enter**, use **INCR** to change the week number, then press **Enter**.

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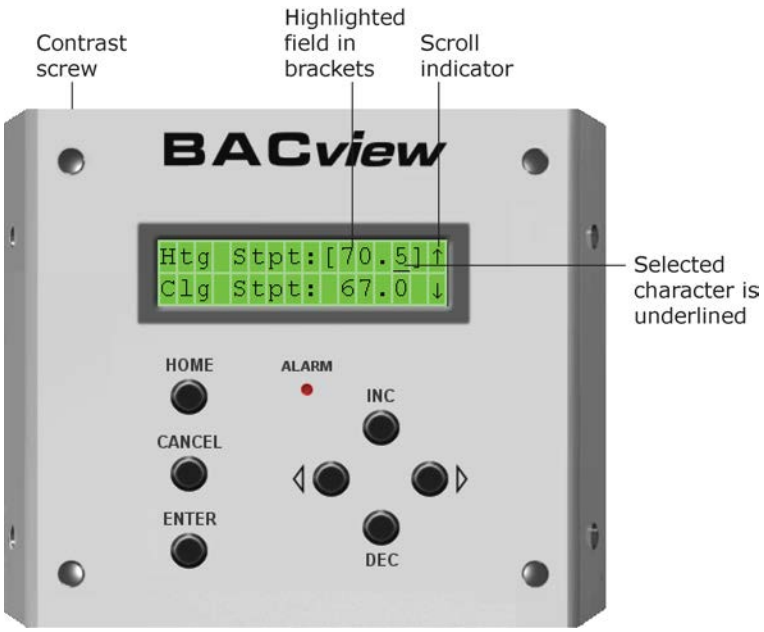
The BACview®5 device?

The BAC*view*[5] device is a keypad/display that you can attach to a controller to view or edit some of the controller's property values or its real time clock.



NOTE You can turn the contrast screw on top of the BAC*view* device clockwise to lighten the display or counterclockwise to darken it.

Specifications

Power required	+12 Vdc @ 50 mA
Power supply	Supplied by the 4-conductor Rnet cable from the controller. **NOTE** To use 2 BAC*view* devices, you must provide an external power supply for the second device.
Backlit LCD display	2-line by 16-character display
Protection	15 KV ESD protection to the enclosure. Built-in solid-state polyswitch protection on incoming power. Polyswitch is not replaceable; it will reset itself if the condition that caused a fault returns to normal.
Mounting	Wall or panel mounting. Remote mounting up to 500 feet. Standard "J" box may be used.
Environmental operating range	32–120°F (0–48.9°C), 10–90% relative humidity, non-condensing

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Overall dimensions	Width: Height:	5 3/8 in. (13.7 cm) 4 7/16 in. (11.3 cm)
Weight	.5 lbs (0.23 kg)	
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE	

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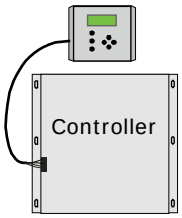
Mounting the BACview®5 device

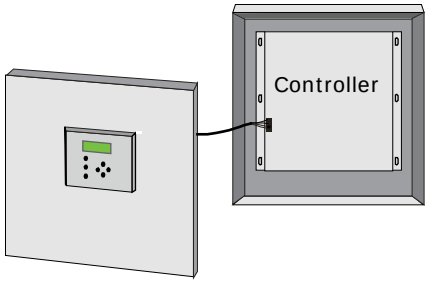
CAUTION If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

You can mount the BAC*view* device:

- In the panel above the controller
- On the panel door
- On a wall up to 500 feet from the controller



BAC*view* mounted above controller

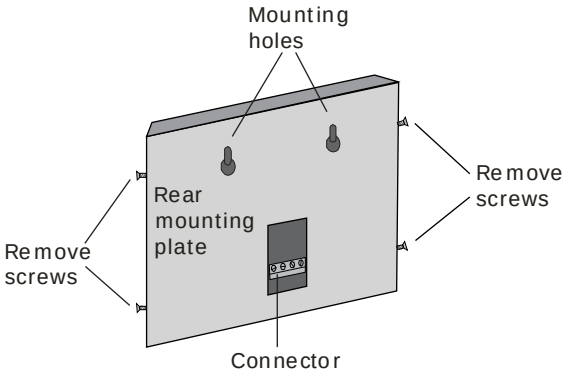


BAC*view* mounted on panel door

To mount the BACview5

CAUTION The BAC*view* is powered by a Class 2 power source. Take appropriate isolation measures when mounting it in a control panel where non-Class 2 circuits are present.

1 Remove the 4 screws on the sides of the BAC*view* device to remove the rear mounting plate.



2 Using the rear mounting plate as a template, drill 2 holes in the surface where you are mounting the BAC*view* device, then insert 2 screws in the holes.

3 If mounting the BAC*view* device on a panel door, use the cutout in the rear mounting plate as a template to cut a hole in the panel door for the cable to pass through.

4 Reattach the rear mounting plate.

5 Wire the BAC*view*® device to the controller. See *Wiring the BACview® device* (page 5, page 13).

6 Hang the BAC*view* device on the 2 mounting screws.

NOTE If mounting above the controller or on a wall, pull the cable out to the side of the BAC*view* device without bending or pinching the cable beneath it.

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Wiring the BACview®5 device

Rnet wiring specifications

NOTE Use the specified type of wire and cable for maximum signal integrity.

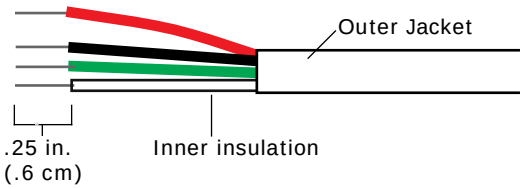
Description	4 conductor, unshielded, CMP, plenum rated cable
Conductor	18 AWG
Maximum length	500 feet (152 meters)
Recommended coloring	Jacket: White Wiring: Black, white, green, red
UL temperature rating	32–167°F (0–75°C)
Voltage	300 Vac, power limited
Listing	UL: NEC CL2P, or better

To wire the BACview® device

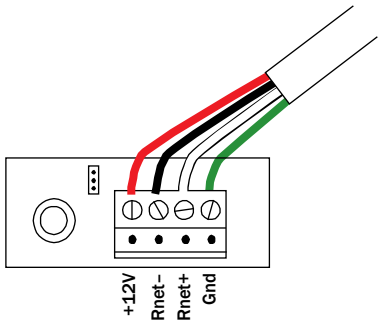
1 Turn off the controller's power.

2 Pull the screw terminal connector from the BAC*view*® device.

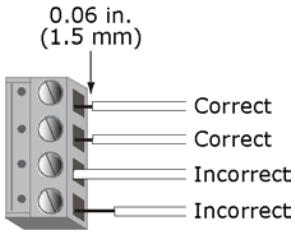
3 Partially cut, then bend and pull off the outer jacket of the Rnet cable(s). Do not nick the inner insulation. Strip about .25 inch (.6 cm) of the inner insulation from each wire.



4 Insert the other 4 wires into the BAC*view*®6 device's screw terminal connector. If wiring 2 cables, insert like-colored wires into each terminal.



CAUTION Allow no more than .06 inch (1.5 mm) bare communication wire to protrude. If bare communication wire contacts a metal surface other than the terminal block, the sensor may not communicate correctly.



5 Insert the screw terminal connector into the BAC*view*®[6] device with the screw heads facing out.

NOTE If mounting the BAC*view*®[6] device on a panel door, feed the cable through the door cutout.

6 Connect the other end of the cable to the controller's **Rnet** port or to an RS or ZS sensor.

NOTES

- Insert the shield wire with the ground wire into the controller's **GND** terminal.
- Use the same polarity throughout the Rnet.

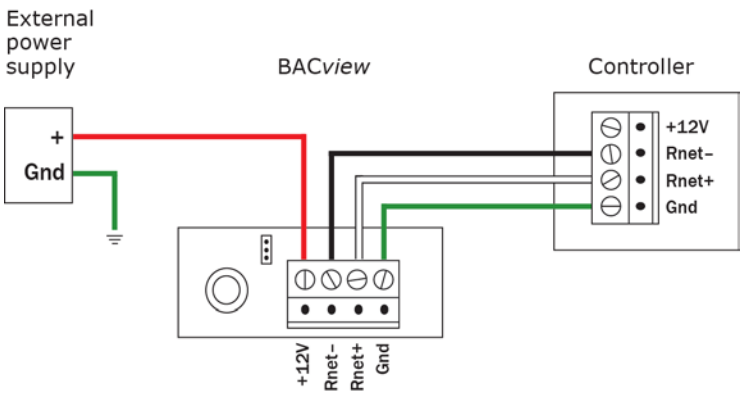
7 Turn on the controller's power.

Wiring 2 BACview devices to the Rnet

Two BAC*view* devices on an Rnet display the same screen.

The first BAC*view* device on an Rnet is powered by the controller. You must provide an external power supply for a second device.

CAUTION The BAC*view* device is powered by a Class 2 power source. Take appropriate isolation measures when mounting it in a control panel where non-Class 2 circuits are present.



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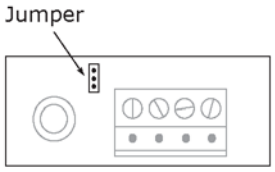
Set the address of each device by putting one device's jumper in the top position and the other's jumper in the bottom position.



Rear mounting plate cutout

BACview5 screens

Before you can use a BAC*view* device, you must:

1 Create a BAC*view* screen file in ViewBuilder.

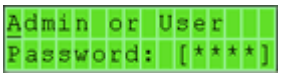
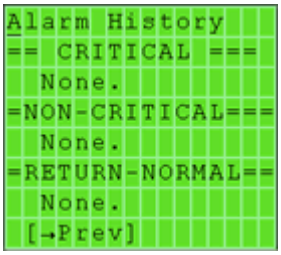
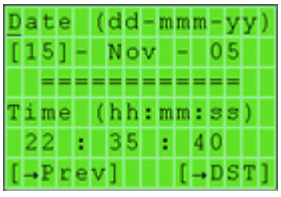
2 Enter the screen file name in the controller's **Properties** box in SiteBuilder.

3 Download the control program to the controller.

The screen file's programming determines which screens you see and what information they display. Your file may display some of the standard screens below as well as custom screens.

NOTES

- Question marks (?????) on a screen indicate a programming error that must be fixed by the screen programmer.
- Pound signs (#####) indicate that a value has too many digits to display in the existing field.

Screen	Description
Standby	Displays when the BAC*view* device has had no operator activity for the time specified in the driver's **Keypad inactivity timeout** field. The standby screen may be blank or display information such as the date and time.
Home	Displays when you click a key while the BAC*view* device is in standby mode.
Login	Displays if the operator selects a screen that requires a password. See To log in. 
Alarm	Displays the 100 most recent alarms received by the controller. 
Clockset	Lets the Administrator make changes to the controller's real time clock. However, if a gateway controller is on the network, the time set in the gateway takes precedence over the time set on this screen.  The [–>DST] link jumps to the screen where an operator can adjust the beginning and ending dates for daylight saving time.

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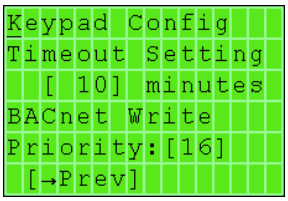
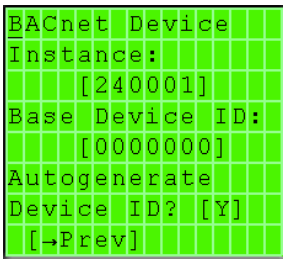
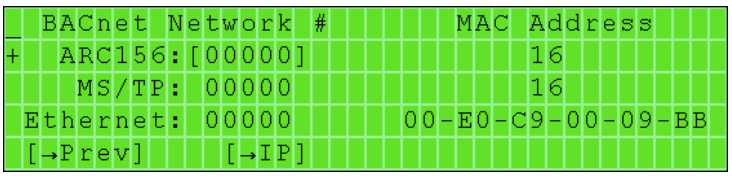
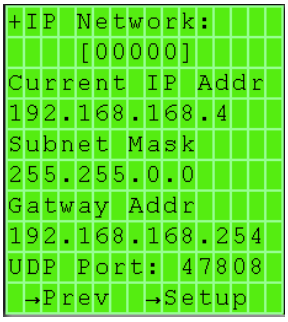
User password	Lets the Administrator change the 4-digit user-level password. **NOTE** An Administrator can change the User password on the User password screen or in the WebCTRL® for OEMs interface on the controller's **Driver** page.
Keypad	For: All controllers Navigate to: **Keypad** Lets you define: • The amount of time (255 min. maximum) of inactivity after which the *standby* screen displays and, if applicable, the backlight on a BAC*view*®[6] device turns off. **NOTE** This time can also be defined in the module driver. • The priority level (0-16), that the BAC*view*® device uses to write BACnet commandable properties to a controller. **BACnet Priorities:** 0 = Relinquish Default (Writes this as the default value for the controller) 1 = Munual Life Safety (Highest priority) 2 = Automatic Life Safety 3 = Available 4 = Available 5 = Critical Equipment Control 6 = Minimum ON/OFF 8 = Manual Operator 9 = Available 10 = Available 11 = Available 12 = Available 13 = Available 14 = Available 15 = Available 16 = Available (Lowest priority) **NOTE** The value that is written from the BAC*view*® device is always written to the controller. If a priority of 1-16 is specified, other BACnet devices must write at a priority equal to or greater than the priority specified by the BAC*view*® device. **EXAMPLE** The Heating Setpoint is written to the controller by a BAC*view*® device at Priority 9. Another BACnet device writes the Heating Setpoint to the controller at Priority 16. This value will NOT overwrite the BAC*view*® value since it was written at a lower priority (16) than the BAC*view*® priority (9). 

BACnet	For: All controllers Navigate to: **BACnet** Lets you view or edit the controller's **BACnet Device Instance** number. This is a unique number that is typically autogenerated. However, if you need to use a custom number, set **Autogenerate Device ID** to **N**, then enter your custom **BACnet Device Instance** number. 
Router	For I/O Flex 6126, I/O Pro 812u, and OEMPrtl Pro Navigate to: **Router** Lets you view or edit the MS/TP network number and the router's address. 
IP	For: I/O Pro 812u, and OEMPrtl Pro Navigate to: **IP** Lets you view or edit network addresses. 

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