Sash Position
11.50"

Date: 7/22/15
Time: 4:31 pm

Triatek HMS-1655R
Remote Display
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HMS-1655R Remote Display

Monitoring Capacity: One HMS-1650/55 Fume Hood Controller

Interface Cable: Belden 3107A, 22 AWG minimum

Protocol: Triatek Proprietary (RS-485 interface)

Power: 18 to 32 Vdc

Touchscreen User Interface

LCD Size and Type: 3.2” diagonal, transmissive

Resolution: 240 pixels x 320 pixels, portrait mode

Viewing Area: 50.60 mm x 66.80 mm

Color Depth: 18-bit or 262K colors

Backlight Color: White

Luminous Intensity: min 2500 cd/m2

Mechanical

Mounting Options: Surface (Plastic)

Mounting Dimensions: 3”W x 5”H x 1.13”D

Environmental

Operating Temperature: 32° to 125° F

Operating Humidity: 10% - 95% RH, Non-condensing

Ordering Codes

Surface Mount model: HMS1655R
Introduction
The Triatek HMS-1655R Remote Display is used to remotely display any parameter monitored by the companion HMS-1655 Fume Hood Controller. The HMS-1655R is capable of monitoring and displaying parameters in any critical environment space including fume hood face velocity, operating mode, sash height, exhaust air flow, and alarm status. The HMS-1655R includes both visual and audible alarms independent of the alarms on the companion HMS-1655 controller.

Key features of the HMS-1655R include:
- Display in real-time any parameter monitored by the companion HMS-1655
- Expand visibility of the companion HMS-1655, allowing all six of its analog inputs to be viewed in real-time (AI-1 through AI-4, TI-1 and TI-2)
- Full-color touchscreen display with programmable options, adjustable LED backlighting
- Intuitive graphical user interface greatly simplifies setup and configuration of monitor
- Display background, action icons, and Safety Halo™ edge lighting update in real-time to indicate hood status from anywhere within the monitored space
- Convenient Status-only mode eliminates all numerical values only indicating alarm status and current mode of operation
- Audible and visual alarms independent of the companion HMS-1655
- Password protection (up to 10 entries)
- Protocol-independent solution; works seamlessly with BACnet® and N2® networks, along with stand-alone applications
- Simple installation with 4-conductor cable attached to nearest Triatek controller
- No separate power supply required

The HMS-1655R is equipped with a 3.2” diagonal full-color touchscreen display in portrait orientation (240 x 320 resolution).

The password-protected menu system is intuitive and simplifies the setup and configuration of the remote display.

The display incorporates bright background color changes to indicate up to four different statuses at the companion HMS-1655.

Green represents “normal” status whereby the monitored parameter is within defined normal operating limits. Yellow indicates that the monitored parameter has drifted outside of the normal operating limits, and is approaching the alarm region. Red indicates that the monitored parameter has encroached the critical region and is currently in alarm. Blue indicates that the companion fume hood controller is in decommissioned mode.

See Figure 1 for a sample screenshot of a HMS-1655R displaying the sash position being monitored by the companion HMS-1655 fume hood controller.

The user may set up multiple passwords to prevent unauthorized or casual access to the HMS-1655R configuration settings. Up to 10 passwords of up to eight digits may be stored.

Mounting Procedure: Surface Mount
The HMS-1655R surface-mount display may be installed on any vertical surface near the fume hood without requiring large cutouts or holes.

The HMS-1655R is configured at the factory for Standard View mode, which most closely matches that of the companion HMS-1655 Fume Hood Controller display. The user may change the factory-default settings by following the procedures outlined in the Quick Start Guide on page 2.

The electrical connections to the HMS-1655R are made via convenient terminal block connectors as shown on page 7.

All wiring should conform to local regulations and the National Electric Code (NEC). Precautions must be taken to avoid running the RS-485 communications wiring in the same conduit as line voltage or other conductors that are attached to highly

Fig 1. Sample screenshot
inductive loads such as generators, motors, solenoids, contactors, lighting ballasts, and other source of induced noise. Use 22 AWG or larger for all electrical wiring terminations.

For new construction wall-mounted applications, the HMS-1655R surface mount enclosure is designed to accommodate a standard single-gang (2x4) wall box. This allows the wall box to be installed during the rough-in phase, and the appropriate electrical conduits to be installed as necessary.

The electrical connections to the HMS-1655R are made via convenient terminal block connectors as shown on page 7.

1. The HMS-1655R should be mounted in a location that provides convenient access so the display may be viewed with minimal glare and the touchscreen is easily accessible to facilitate silencing the unit in the event of an alarm condition.

2. Begin the mounting procedure by removing the surface mount enclosure cover from the Safety Halo™ backplate. Turn the set screw at the bottom of the enclosure clockwise until it has cleared the hole in the cover, thereby allowing it to be removed from the backplate. To re-secure the cover, turn the set screw counter-clockwise until it is flush with the cover.

3. If this is a new construction project and a single-gang wall box has been installed, you may skip the next step. If this is a retrofit application and existing drywall is in place, then proceed with the next step to prepare for the mounting of the HMS-1655R surface mount model.

4. There are two primary options for installing the HMS-1655R in retrofit applications. The first option is to use two drywall anchors to mount the surface mount Safety Halo™ backplate. Using the backplate as a template for marking and drilling a ¾” hole at the center, bring the low-voltage wiring required for the HMS-1655R through the center hole at the backplate. The second option is to use an old-work low-voltage box or bracket as shown in Figure 2.

5. Once the surface mount Safety Halo™ backplate has been properly installed, the electrical connections should be terminated before installing the cover with the display. Run the 4-conductor, dual twisted pair, electrical connection from the nearest HMS-1650/55. Refer to the wiring diagram shown on page 7 for details.

6. Terminate the interface cable originating from the host controller at the 4-position and 3-position terminal blocks on the back side of the HMS-1655R display, ensuring proper electrical connections. Power connections should be terminated at +V and GND of the 4-position terminal block, and the subnet connections should be terminated at NETWK+ and NETWK- of the 3-position terminal block (see page 7).

7. With the electrical connections properly terminated, the surface mount enclosure cover may be installed by sliding the two tabs at the top of the inside edge into the two slots at the top of the Safety Halo™ backplate secured to the wall. Secure the HMS-1655R enclosure cover by turning the slotted set screw at the bottom of the backplate counter-clockwise, backing it out until it is flush with the cover.

Quick Start Guide
After the HMS-1655R has been properly installed, apply power to the companion HMS-1655 Fume Hood Controller. Upon power up, you will hear a quick beep at the HMS-1655R which indicates that the initialization sequence has been initiated.

The Safety Halo™ edge lighting will cycle through seven colors (red, green, blue, yellow, magenta, cyan, and white), followed by the three action icons shown in Figure 3 that represent normal, caution, and alarm.

Next, the Triatek splash screen indicating the electronic serial number (ESN), firmware version numbers, and the current subnetwork address of the companion HMS-1655 will appear. This splash screen remains displayed for several seconds and then disappears to reveal the main display screen in the currently configured viewing mode.
The information shown on the splash screen may also be re-displayed at any time by selecting About This HMS Remote Display on the Diagnostics menu.

Main Display Screen
All HMS-1655R units come shipped from the factory in Standard View mode (Figure 1). Information displayed on the main screen includes the following for HMS units:

- Name of monitored fume hood or parameter (up to 25 characters)
- Current mode of operation (occupied, unoccupied, or decommissioned)
- Current alarm status (normal, warning, or alarm)
- Current monitored parameter reading in selected engineering units
- Current local audible alarm status (enabled or disabled)

If the companion HMS-1655 is offline, the background color on the screen will be blue with the disabled action icon shown. (Figure 4) Once the companion HMS-1655 comes back online, the background color, action icon, and Safety Halo™ edge lighting will update to represent the current alarm status of the monitored parameter. A green background with the green checkmark action icon (Figure 5) indicates that the monitored parameter is within normal operating range.

A yellow background with the yellow exclamation point action icon (Figure 6) indicates that the monitored parameter has drifted outside of the allowable limits of the desired setpoint, and is in the caution or warning range.

A red background with the red exclamation point action icon (Figure 7) indicates that the monitored parameter has reached a critical condition and is outside of the allowable limits of the target setpoint. This visual indication is supplemented by an audible alarm to indicate that attention is required.

The HMS-1655R incorporates a full-color touchscreen display and with an intuitive menu system that allows the user to quickly setup the remote display for immediate use. Also incorporated in the HMS-1655R remote display are hotspots that provide quick access to in-depth station details, enable you to set the time and date, and audible alarm enable/disable functions.

Touching the screen anywhere other than one of the reserved hotspots invokes the menu system, unless one or more security passwords have been entered.

If the companion HMS-1655 resides on a network with a time server, then the time and date will automatically be synchronized at the HMS-1655R through the companion HMS-1655.

Configuring HMS-1655R
Configuring the HMS-1655R settings can be accomplished in three simple steps:

1. Specify subnetwork address the companion HMS-1655
2. Select viewing mode (Standard View or Status-only View)
3. Select individual parameter to be displayed

The HMS-1655R comes pre-configured for Standard View mode. If the specific
application requires the remote display of a parameter other than the fume hood face velocity reading, then the specific parameter to be displayed can be re-configured as described later in this section.

**Specifying the Subnetwork Address**
To specify the subnetwork address of the companion HMS-1655, select the **Monitor Setup** option on the **Unit Setup** menu (see **Figure 8**). Use the address slider to specify the subnetwork address of the companion HMS-1655.

**Selecting the Individual Parameter**
The HMS-1655R is capable of monitoring any of the six parameters being monitored by the companion HMS-1655 (Figure 10 shows the hood exhaust flow being displayed on the HMS-1655R).

To select the parameter you would like displayed on the HMS-1655R, tap the displayed parameter in the upper LCD window (gray box) on the main display.

Tapping this field invokes a details screen which includes all six of the analog input parameters currently being monitored at the companion HMS-1655.

To change which parameter is displayed on the main screen of the HMS-1655R, select the individual parameter on the details screen and tap the **OK** button.

**Adding Password Security**
The HMS-1655R menu system may be protected by adding as many as ten user-specified passwords to the system.

A password entry may be created by selecting the **Add Password** option on the **Password Setup** menu, which is accessible from the **System Setup** menu (see Figures 11 and 12).

The user is prompted to enter a minimum of four and up to eight digits. All password entries are stored in non-volatile memory, and are preserved while the unit is powered down.

In the event that a password has been forgotten, there is a factory-default override password that will provide access to the user menu system. Please consult with the factory for more information regarding this password.

**Changing Display Settings**
The HMS-1655R display screen may be customized using the options on the **Display Setup** menu. The settings for the Safety Halo™ feature may be enabled or disabled at the **Safety Halo™** option on the **Display Setup** menu. Settings include normal intensity, auto-dim intensity, and duration.
The auto-dim feature of the Safety Halo™ function allows the HMS-1655R to go to a reduced intensity level (or even turn off completely) between specified hours each day.

The time and date, which are only displayed while Standard View mode is selected, may be adjusted either by using the hotspots on the main display, or by selecting Display Setup, then Set Time & Date.

The HMS-1655R is also designed to request time and date settings periodically from the companion HMS-1655, assuming it resides on a network that has a time server available. This ensures that the time and date are accurate on the HMS-1655R.
## Configuring Display Module Settings

### Options Dipswitch (S1) – *internal use only*

<table>
<thead>
<tr>
<th>Option</th>
<th>OFF</th>
<th>ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Amulet Chip Mode Selection</td>
<td>Programming Mode</td>
<td>Run Mode</td>
</tr>
<tr>
<td>2. Touchscreen Calibration Mode</td>
<td>Force calibration</td>
<td>Auto calibration</td>
</tr>
<tr>
<td>3. Reserved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Reserved</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Options Dipswitch (S2) – *internal use only*

<table>
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<tr>
<th>Option</th>
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<th>ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Mode Select</td>
<td>FMS/HMS1655R</td>
<td>Reserved</td>
</tr>
<tr>
<td>2. Test Mode</td>
<td>Inactive</td>
<td>Active</td>
</tr>
<tr>
<td>3. FMS/HMS Mode</td>
<td>FMS1655R</td>
<td>HMS1655R</td>
</tr>
<tr>
<td>4. Operational Mode</td>
<td>Demo Mode</td>
<td>Run Mode</td>
</tr>
</tbody>
</table>

### Pushbutton Switch (SW1)             | Reset Button             |
### Pushbutton Switch (SW2)             | Reserved                 |
Wiring HMS-1655R to Nearest Triatek Controller

Pluggable Terminal Blks
Located Inside User Interface

CN7
CN3

- 7 -
Introduction
This section details all of the available capabilities in the HMS-1655R, and should be used to access more detailed information regarding the menu options:

- Overview
- Main Setup Menu
- Unit Setup
- System Setup
- Display Setup
- Diagnostics

The touchscreen user interface of the HMS-1655R is designed to facilitate the initial setup and configuration, diagnosis, and troubleshooting during the installation process.

Each menu screen is limited to four options, thereby simplifying navigation through the menu system. Context-sensitive help is available at most menu screens and is accessed simply by touching the menu title on any particular screen (see Figure 13).

To exit from any Help screen, simply touch the display anywhere. Multi-page menu screens have navigation buttons at the bottom of each screen that allow the user to move forward or backward, and include a convenient Exit button on the last screen to quickly exit the menu system and return to the main display.

To preserve the security of the configuration settings, up to 10 passwords may be programmed to prevent unauthorized access to the system configuration settings. To further prevent unauthorized access, the HMS-1655R user menu system incorporates automatic time-out periods based on the screen currently being displayed.

Menu screens time-out after 90 seconds of inactivity, while configuration screens automatically time-out after 60 seconds. This prevents unauthorized access to the user menu system should a unit be inadvertently left unattended at one of the configuration screens.

Main Setup Menu
All of the configuration screens that allow the settings of the HMS-1655R to be configured for a specific application originate from the top level of the user interface menu system, the Main Setup Menu as shown in Figure 14.

The Main Setup Menu includes four options which provide support for 1) configuring the settings specific to the unit as a remote display, 2) managing the system security passwords, 3) configuring the display-specific settings, and 4) using the diagnostics and troubleshooting resources.

The majority of the configuration settings are available through the Unit Setup option on the Main Setup menu. Options available on the System Setup menu option include support for managing the security passwords. The Display Setup menu option provides support for configuring all of the display-specific settings integrated within the HMS-1655R.

The HMS-1655R can simultaneously display in real-time the selected monitored parameter, operating mode (if applicable), alarm status, and its associated name. The Diagnostics menu option provides information specific to the HMS-1655R.

More information on each of these four menu options is available in the following sections. The next section covers the two options available on the Unit Setup menu.
Unit Setup
The HMS-1655R is capable of displaying any of the six parameters being monitored by the companion HMS-1655. The Unit Setup menu shown in Figure 15 provides support for 1) specifying the subnetwork address of the companion HMS-1655 and the viewing mode, and 2) configuring the audible alarm settings, including the starting and ending hours for the Alarm Quiet Period.

Configuring Monitor Settings
The Monitor Setup option on the Unit Setup menu invokes the configuration screen, which allows the user to specify the subnetwork address of the companion HMS-1655 room controller and select the Viewing Mode option: Standard View or Status-only View. Standard View mode presents the usual main display that is shown on an HMS-1655 controller. Status-only View presents the view shown in Figure 16, with no numeric values, and only background color to indicate the current status of the companion HMS-1655.

At this screen, the user may specify the operating mode for the alarm buzzer, Audible Mode or Silent Mode. Selecting Audible Mode allows the user to specify a Delay Time in seconds or minutes, which defines the period of time the audible alarm activation will be delayed when alarm status occurs.

Configuring Audible Alert Settings
The Audible Alert option on the Unit Setup menu provides support for configuring the settings associated with the audible alarming capabilities of the HMS-1655R, and invokes the configuration screen shown in Figure 17 when selected.

Fig. 16 Select Monitor Mode

Tapping Finish at the Monitor Setup configuration screen stores that subnetwork address of the companion HMS-1655 and begins the polling process immediately.

Fig. 17 Alarm Buzzer Settings

Selecting audible mode on the Alarm Buzzer Settings screen also allows an Alarm Quiet Period to be defined, during which the audible alarm will be muted whenever an alarm condition occurs at the companion HMS-1655.

Tapping the Next button invokes the Alarm Quiet Period screen as shown in Figure 18. At this screen, the starting and ending hour may be specified which defines the alarm buzzer muted period.
There are three alarm status conditions, each represented by a distinct background color and action icon on the display as shown in Figure 19.

**Normal** status indicates that the monitored parameter is within its normal operating range and is indicated by a green background and a green checkmark action icon. The Safety Halo™ status indicator, if enabled, will illuminate in green to indicate the **Normal** status.

**Warning** status indicates that the monitored parameter has drifted outside of its normal operating range, but has not yet exceeded the alarm setpoints. This condition is indicated by a yellow background and a yellow exclamation point action icon. The Safety Halo™ status indicator, if enabled, will flash slowly in yellow to indicate the warning or caution status.

**Alarm** status indication that the monitored parameter has exceeded the defined alarm limits and is in need of attention. This critical condition is indicated by a red background and a red exclamation point action icon. The Safety Halo™ status indicator, if enabled, will flash quickly in red to indicate the **Alarm** status.

A blue background indicates that **Decommissioned** mode is selected at the companion HMS-1655. This mode is indicated by an action icon represented as a red circle with a line through its center. The Safety Halo™ status indicator, if enabled, will illuminate in blue to indicate **Decommissioned** mode.

**System Setup**

To preserve the integrity of the configuration settings stored in the non-volatile memory of the HMS-1655R, a system security password management facility has been incorporated with a capacity of ten unique passwords.

The **System Setup** menu shown in Figure 20 provides support for managing system security passwords.

**Managing System Security Passwords**

The HMS-1655R incorporates a system security password facility to prevent unauthorized access to the system menus and configuration settings, and may store up to 10 unique password entries.

The **Password Setup** option on the **System Setup** menu allows the user to manage the system passwords, including options for adding and deleting entries (see Figure 21).

**Adding New Passwords**

To add a new password entry, select the Add Password option from the Password Setup menu. At the Add Password entry screen shown in Figure 22, enter at least four and up to eight digits.
If the entry is unique, tapping the Finish button stores the password to non-volatile memory. If the entry is invalid or not unique, the warning buzzer will sound briefly, and the password entry screen will reset to accept a new entry.

Deleting an Existing Password
To delete an existing password entry, the password to be deleted must be used to enter the user menu system. Select the Delete Password option from the Password Setup menu, and tap OK to confirm that you want to delete the existing password entry.

Purging All Passwords
In the event a previously entered password is forgotten, the user may purge all password entries at any time using the Purge All option.

Display Setup
The Display Setup menu provides support for configuring all of the display settings on the HMS-1655R.

This includes configuring the Safety Halo™ settings, selecting the display viewing mode, adjusting the display brightness, and setting the system time and date.

Configuring the Safety Halo™
The Safety Halo™ option on the Display Setup menus allows you to configure the settings for the Safety Halo™ bezel, including the Nightly Auto-Dim feature. This feature allows the Safety Halo™ to automatically reduce its brightness to the specified percentage at the specified Starting Hour, and return to normal brightness at the specified Ending Hour.

To configure the Safety Halo™, select the Safety Halo™ option from the Display Setup menu, which invokes the Safety Halo™ Settings configuration screen. The Safety Halo™ feature may be enabled or disabled by selecting the corresponding radio button. If enabled, the normal intensity level may be varied between one and 100 percent. This is the intensity of the Safety Halo™ bezel during normal operating hours if Nightly Auto-Dim is enabled, or continuously otherwise.

To configure the Safety Halo™ to reduce in brightness intensity during evening hours or otherwise, select the Nightly Auto-Dim radio button and adjust the Dimmed Level between zero percent and 100 percent. To turn off the Safety Halo™ during the Nightly Auto-Dim period, set the dimmed level to zero percent. Tap the Next button to proceed to the next Safety Halo™ Settings screen where the starting and ending hours of the Dimmed Period may be specified.

For example, to configure the Safety Halo™ feature to reduce in brightness intensity to the dimmed level between 7:00 pm and 6:00 am every day, set the Starting Hour to 19 and the Ending Hour to 6. In this example, the Safety Halo™ will reduce in intensity at 7:00 pm every night, and return to normal intensity at 6:00 am every morning.

Selecting Display Mode
The Display Mode option on the Display Setup menu allows the subnetwork address of the companion HMS-1655 to be specified, and the viewing mode of the remote display to be configured.
Use the slider to specify the address of the companion HMS-1655, and then touch the radio button corresponding to the desired viewing mode.

To eliminate all numeric values from the main display and only represent the status of the companion HMS-1655, select Status-only View mode. Otherwise, select Standard View mode and touch the Finish button to save the new settings to non-volatile memory.

Selecting Display Brightness
Selecting the Set Brightness option on the Display Setup menu invokes the Set Backlighting Level configuration screen as shown in Figure 23.

To increase the brightness of the display, move the slider to the right. Moving the slider to the left reduces the brightness down to a minimum level that remains visible.

Tapping the OK button stores the new brightness setting to non-volatile memory, which allows the display to return to this brightness level even if a power loss is experienced.

Setting System Time and Date
The HMS-1655R is designed to synchronize its local time and date with the network-resident controller it is monitoring, thereby allowing the time-based features to operate accurately.

These include the Alarm Buzzer Quiet Period, and the Safety Halo™ Auto-Dim Period. Selecting this option invokes the time configuration screen as shown in Figure 24.

The colon between the hours and minutes automatically appears while entering the time. Similarly, the forward slash appears between the month, day and year automatically while entering the date.

After entering the digits for the current time, touch the A/P button to specify am or pm, and then touch the Next button to enter the date. The date entry should be in the U.S. format as shown in Figure 25.

For convenience, the time and date may also be entered directly from the main screen (Standard View mode only) by touching the time and date fields, respectively.

Tapping each invokes the appropriate configuration screen without requiring the user to enter the menu system.

Diagnostics
The Diagnostics menu provides support for displaying information specific to this particular HMS-1655R unit, as well as convenient method of executing a soft reboot.

Selecting the About This HMS Remote Display option from the Diagnostics menu...
invokes the information splash screen shown in Figure 26, including the electronic serial number, firmware version numbers, and the subnetwork address of the companion HMS-1655.

If you have general questions regarding the HMS-1655R or need technical assistance during installation, this screen lists the phone number to Triatek’s Tech Support line.

You will need the information included on the About This HMS Remote Display screen to identify the specific details pertaining to your unit.

Resetting the HMS-1655R

The Reset Monitor option on the Diagnostics menu allows the user to perform a soft reboot of the remote display and completely re-initialize the unit.

This option may be useful during the installation process when changes have been made to the network parameters (subnetwork address).

Selecting this option invokes the warning message as shown in Figure 27, informing the user that the HMS-1655R will be reset when the OK button is tapped to confirm the request.

![Figure 26 Splash Screen](image)

![Figure 27 Diagnostics](image)
User Menu Flow Diagram

**Unit Setup**
- Monitor Setup
  - Single Monitor Setup
- Audible Alert
  - Audible / Silent Delay Time
  - Alarm Quiet Period

**System Setup**
- Passwords Setup
  - Back
  - Add Password
    - Enter Password
  - Delete Password
    - Confirm Deletion
  - Purge All
    - Confirm Purge All

**Display Setup**
- Safety Halo
  - Disable/Enable
  - Nightly Auto Dim
  - Nightly Auto Dim Period
- Display Modes
  - Select Display Mode
- Set Brightness
  - Set Backlight Level
- Set Time & Date
  - Enter Time
  - Enter Date

**Diagnostics**
- About This HMS1655R
  - Displays model no., serial no., firmware versions, & Companion address
- Reset Display
  - Soft reset of display module
Headquartered in Norcross, Georgia, Triatek has been on the forefront of designing and manufacturing innovative airflow solutions for critical environments since 1985. Triatek provides complete end-to-end solutions for healthcare facilities and laboratories including Venturi valves, room pressure controllers, fume hood controllers, monitors, sensors, actuators, and more all designed to seamlessly integrate into a facility’s building automation system.

Triagek’s customer service is unparalled. Our product support system includes on-site installatinos, phone support, repairs, calibrations, and in-depth training sessions.

From our knowledgable engineers and sales team to our talented field technicians, Triatek goes above and beyond to ensure our products are installed correctly and our customers’ critical environments are working properly.