

S7760A Command Display



User Guide

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INTRODUCTION

The S7760A Command Display provides local display of system variables and alarms in a LonWorks® network. The S7760A Command Display also allows the user to modify setpoints, schedules and basic system parameters and acknowledge alarms. Multi-level password protection prevents unauthorized access. Easy navigation between Building and Room views allow users to easily perform the most common tasks. This User Guide describes the operation of the Command Display using the 2.X operating system.

SCREEN OVERVIEW

Main Screen

Fig. 1 shows the screen overview currently present in the Command Display. The first screen that is displayed is the *Main Screen*. From the *Main Screen*, the user navigates to various screens using the keys available. For viewing certain screens, the user must use a password(s) to get access. For example, to access the *Alarms* screen from the *Main Screen*, the user needs to have a level 1 password. If the user has a level 3 password, the user can view any screen without providing additional passwords. If the current level of password is less than the password required for that screen, the Command Display shows the *Password Check* screen to get the required password from the user. If the user types a password that has a higher level than the current level, then the new screen is shown. For example, assume that the current password level is level 1. If the user presses the *Setting* softkey to change the configuration settings, the *Password Check* screen pops up. The user must specify the level 3 password to make the Command Display show the *Display Setting* screen. If a level 3 password is not specified, the *Display Setting* screen is not shown. In Fig. 1, the ellipse specifies the password level required to access the desired screen.

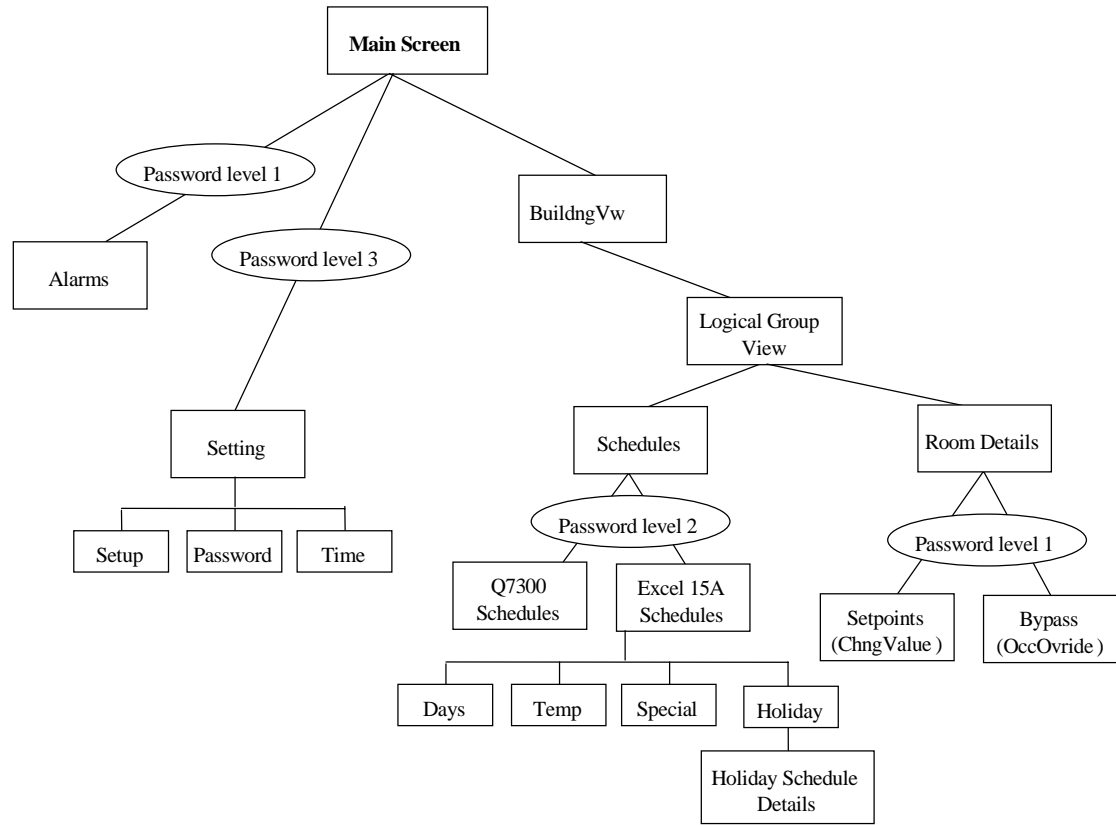


Fig -1: Command Display Screen Hierarchy

Alarms Functionality

Fig. 2 shows the Alarm functions that are available in the Main Screen. By supplying a level 1 password, the alarms read from the Excel 15A can be viewed and acknowledged locally. The *Alarms* screen displays the text associated with each alarm.

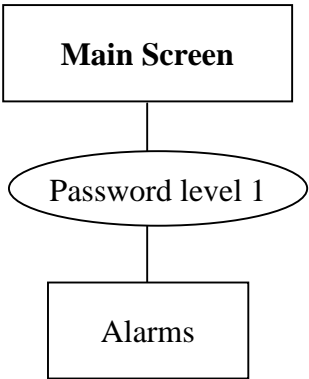


Fig - 2: Alarms Functionality

Configuration

Fig. 3 shows the Setting function available in the Main Screen. A level 3 password gives access for configuring the parameters using the *Setup* softkey, modifying/viewing the password by using the *Password* softkey and modifying/viewing the date and time by using the *Time* softkey.

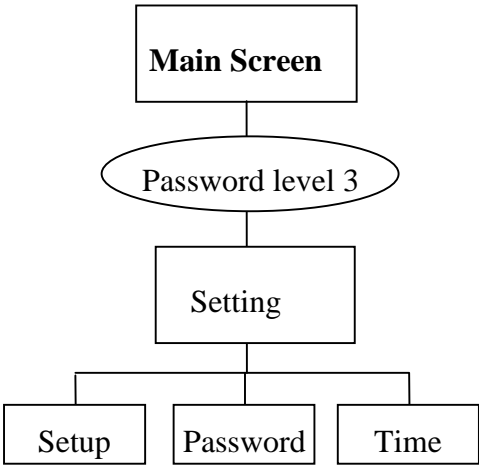


Fig - 3: Configuration

Schedules Functionality

Fig. 4 shows the schedule functions that are available in the *Logical Group View*. A level 2 password gives access for viewing the *Excel 15A* or *Q7300 Schedules*. The schedules can be modified and written back to the controller. If a (named object) is associated with an Excel 15A schedule, the schedule is read from the Excel 15A and is displayed. The user can view, modify, or save the information related to Days, Temporary, Special or Holidays Schedules. If a named object is associated with a Q7300 schedule, the schedule is read from the Q7300 and is displayed. The user can modify or save the information related to the schedule.

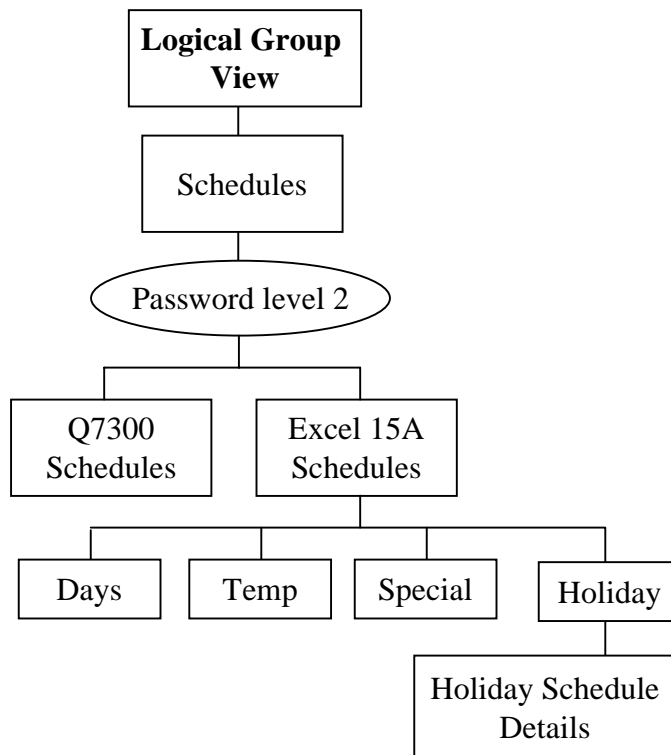


Fig - 4: Schedules Functionality

Setpoints Functionality

Fig. 5 shows the setpoint functions that are available in the *Room Details* screen for a (named object). A level 1 password gives access to change the values of setpoints by pressing the *ChngValue* softkey. The setpoint function only applies if the (named object) supports setpoints. For VAV2, and Unit Ventilator, (named objects), there are two setpoint screens that are displayed. The *Setpoints A* screen only displays the Occupied Heat/Cool information, if the Wall Module is not configured, and allows the user to edit these values. If the Wall Module is configured, the Occupied Cool/Heat information is not displayed. The *Setpoints B* screen displays all the setpoint information and allows the user to modify setpoint information with or without the availability of a Wall Module. For CVAHU named object, there are two setpoint screens displayed in the cases of wall module being configured and wall module being unconfigured.

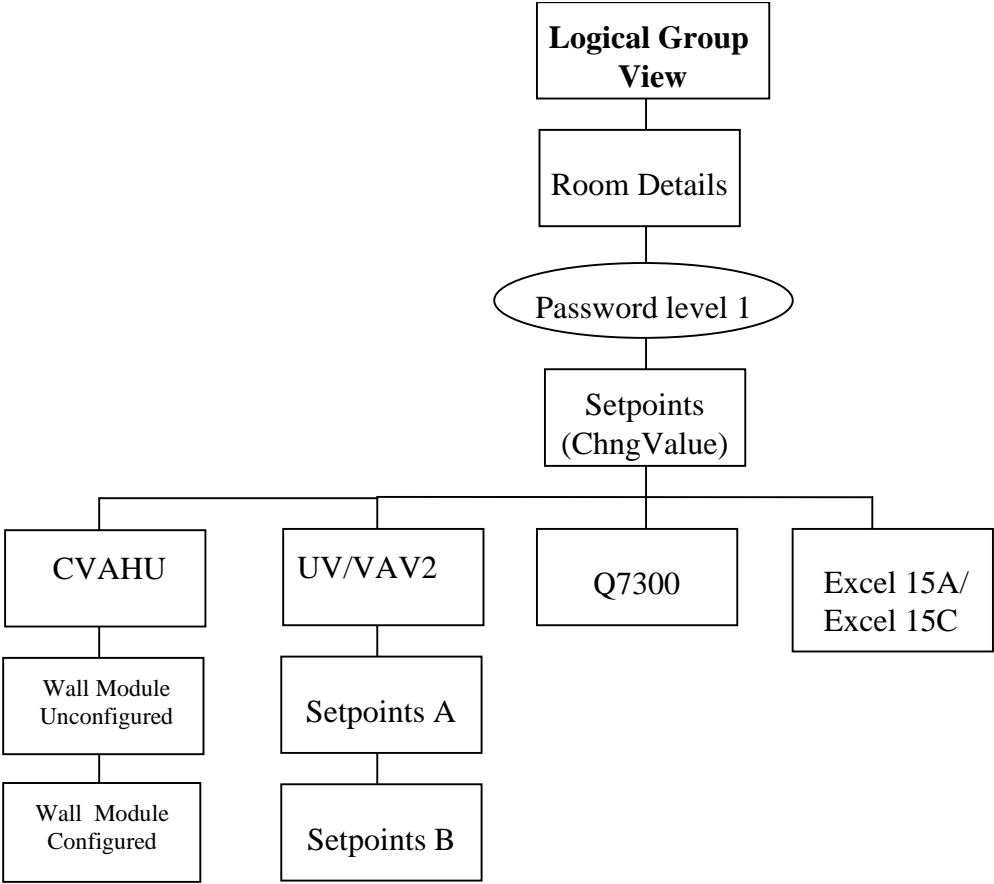


Fig - 5: Setpoints Functionality

Bypass Functionality

Fig. 6 shows the Bypass functions that are available in the *Room Details* screen for a (named object). A level 1 password gives access to bypass variable by pressing the *OccOvrde* softkey. The user can either set the state to bypass, occupied, unoccupied or cancel the current override status, by pressing the *Timed Occ*, *Cont Occ*, *Cont Unocc*, or *CancelOvrde* softkeys respectively.

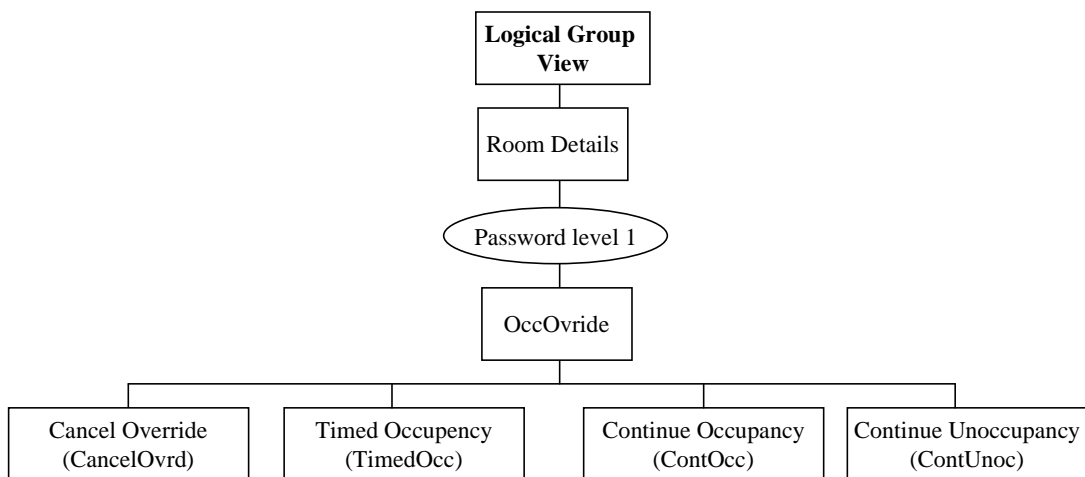


Fig - 6: Bypass Functionality

GENERIC SCREEN LAYOUT

Description

Any screen displayed by the Command Display has information organized in eight rows and 40 columns of text. (See example below.)

The first row displays the Screen Title. The seven rows show *Info Row 1* through *Info Row 6* displaying six rows of information on a screen.

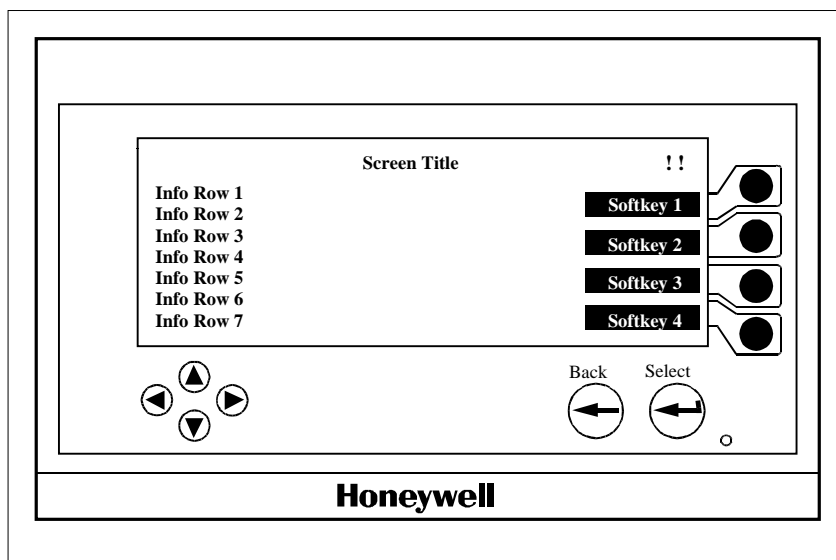


Table 1. Key Name with the Symbol and theirFunction.

Key Name and Symbol	Function
Alarm flash !!	Blinking when new alarm occurs and is steady when all the alarms are acknowledged.
Left ⬅	Moves the cursor left by a cell. In certain screens this key is used to scroll a page down.
Right ➡	Moves the cursor right by a cell. In certain screens this key is used to scroll a page up.
Up ⬆	Moves the cursor up by a row.
Down ⬇	Moves the cursor down by a row.
Back ←	Goes to the previous screen.
Select ↵	Selects the highlighted field.
Softkey 1 (top)	Context-sensitive function 1 on the screen.
Softkey 2 (second)	Context-sensitive function 2 on the screen.
Softkey 3 (third)	Context-sensitive function 3 on the screen.
Softkey 4 (bottom)	Context-sensitive function 4 on the screen.
Left and Right pressed together	Jumps to the contrast screen with proper access privilege.

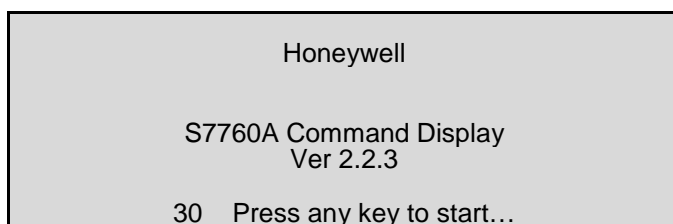
Note: Some screens use only a few of the 10 available key functionality.

COMMAND DISPLAY SCREENS

Description

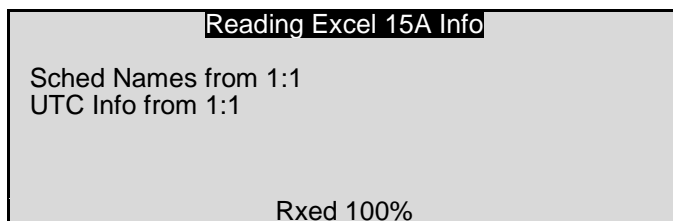
This section describes each screen shown on the Command Display (only the display is shown). See Table 1 and the diagram above it as a reference. Details for the softkey and the hardkey functions and their operations are described. The functions of the softkeys and the hardkeys vary with the different screens shown.

When the Command Display powers-up, it displays the following screen. The timeout for this screen is 60 seconds after which the Command Displays proceeds with its initializations. The user can intervene this timeout by pressing any key.

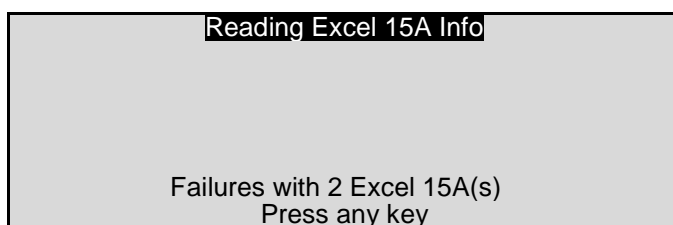


The following are the information acquired during initialization:

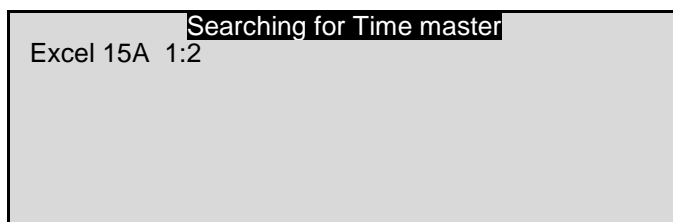
- Acquiring Schedule names and UTC information from each Excel 15As.
For each Excel 15A, the schedule names and the UTC information is acquired. The status of the file transfers are indicated on the screen. If the Command Display fails to communicate with an Excel 15A, it continues reading the information from other Excel 15As.



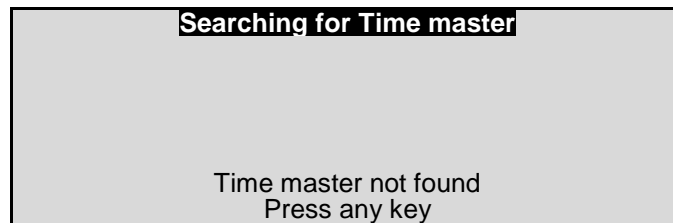
The following screen is displayed when the Command Display has failed to acquire schedule names and UTC information from atleast one Excel 15A. The number of Excel 15As with which the Command Display failed to communicate is also indicated.



- Searching for the presence of a Time Master in the network.
The Command Display searches for a time master on the network. The time master can be either an Excel 15A or a Q7300.

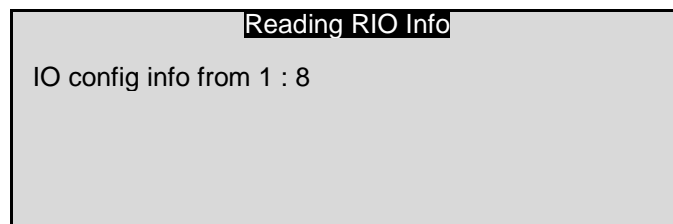


If no time masters are detected, the following screen is displayed. If the Command Display was unable to detect a time master, it will consider the first Excel 15A/Q7300 in its tables as the time master.

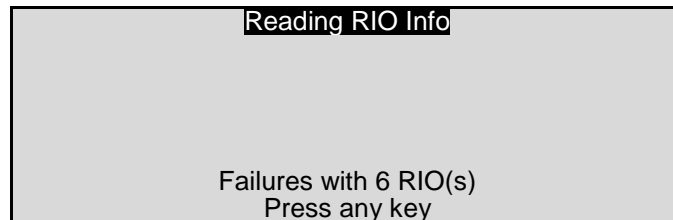


➤ Acquiring Analog inputs information from RIO.

The Command Display acquires and stores the Analog Inputs configuration information from a maximum of 100 RIOs. The following screen is displayed when the Command Display is acquiring information from an RIO. If the Command Display fails to acquire the configuration information from an RIO, it will continue the operation with the next RIO in its list.

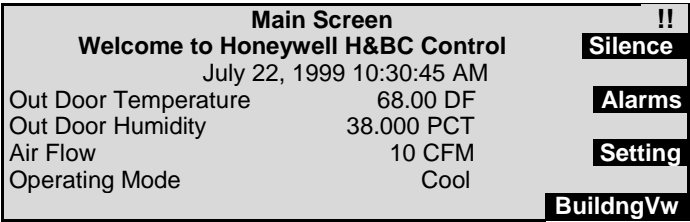


The following screen is displayed when the Command Display has failed to acquire the configuration information with atleast one RIO.



Main Screen

The Main screen will be displayed by the CD after all the initializations. This screen can be customized by LonSpec to appear as below:

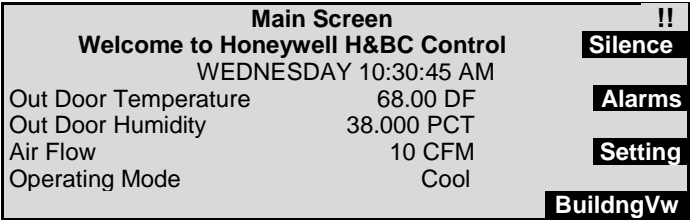


If not customized, the Main screen will appear as below (default):



Entry to Screen: Power-up the Command Display (CD). This is the first screen user will see after initialization. This is the default screen in CD.

Description: This screen can be customized to display Plain Text (company specific info), Date & Time, or Point information. The customization should be done using LonSpec. If the date and time information is fetched from an Excel 15A, the CD displays it either in mmm/dd/yyyy format or dd/mmm/yyyy format depending on the current setting. If the time and date information is fetched from a Q7300, the CD displays the weekday and the time information only, since the year and month information, fetched from the Q7300, will not be valid. The following screen shows the way the CD displays the date/time information fetched from the Q7300, on its splash screen. Observe that only the weekday is displayed as part of date, and not the year or the month.



Password Level: 0.

Key Description:

Table 2. Describes the function for each softkey when using the Main screen function.

Table 2. Softkey & Hardkey Description.

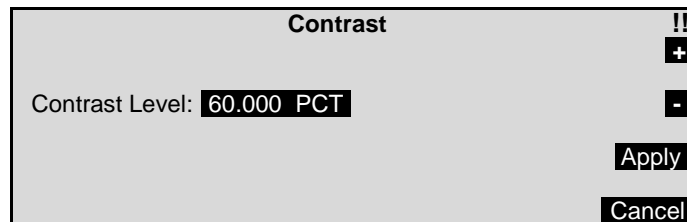
Softkey	Description
Silence	Disables the audible tone if enabled. The audible tone, if enabled, is generated when the CD receives alarms.
Alarms	Goes to the alarm screen displaying the list of alarms if they exist.
Setting	Configure the CD settings for beep on/off, contrast level, date & time format, Units, etc.
BuildingVw	If there are more than one Logical groups, the control goes to the Building view screen displaying the list of logical groups. If there is only one logical group, the control goes directly to the logical Group view Screen.

Inactive Keys:

Left, Down, Right, Up, Back and Select

Exit from Screen:

None. The Main screen does not have any parent screen

Contrast**Entry to Screen:**

Press the *Left* and *Right* arrow keys together on any screen to enter the Contrast screen.

Description:

This screen is used to adjust the LCD contrast level. The contrast level is set as a percentage. Pressing the *Apply* softkey saves the level of contrast. If the user does not want this level saved, press the *Cancel* softkey.

Password Level:

0.

Key Description:

Table 2 describes the function for each softkey when using the Contrast function.

Table 2. Softkey & Hardkey Description.

Softkey	Description
+	Increments the contrast value in steps of 10 percent.
-	Decrements the contrast value in steps of 10 percent.
Apply	Saves the level of contrast and returns to the previous screen.
Cancel	Cancels any change to the contrast level without saving and returns to the previous screen.
Hardkey	Description
Back	Exit from screen.

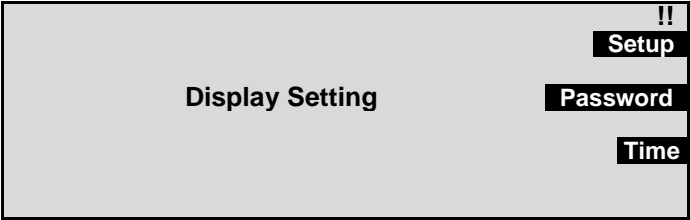
Inactive Keys:

Left, Right, Up, Down, Select

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

Display Setting



Entry to Screen: *Main screen> Setting*

Description: This screen is used to configure password levels, system date/time and various other parameters like contrast, engineering units etc., that control the functions of Command Display.

Password Level: 3.

Key Description: Table 3 describes the function for each softkey when using the Setting function.

Table 3. Softkey Description.

Softkey	Description
Setup	Invokes a setup sub-screen from where various parameters can be configured.
Password	Invokes a sub-screen from where the current passwords can be viewed and modified.
Time	Invokes a sub-screen from where the current network time and date information can be viewed and modified. The time and date information is acquired from an Excel 15A if any of the Excel 15A is configured as the time master. If there are no time masters configured, the CD will acquire the current time and date information from the first Excel 15A/Q7300 that it encounters in its Physical Device List

Inactive Keys: *Left, Right, Up, Down, Select, Softkey 4 (bottom)*

Exit from Screen: *Back or Keyboard Inactivity Timeout*

Password Entry			!!
Level			+
1	Alm,StPt	1 0 0 0	-
2	Alm,StPt,Schd	2 0 0 0	Apply
3	Alm,StPt,Schd, Cnfg	3 0 0 0	Cancel

Entry to Screen:

Setting > Password

Description:

This screen is used to view and modify the three levels of passwords. Pressing the *Apply* softkeys saves the modified password. Valid digits for entering password levels are 0-9. A level 3 password has the highest privilege while a level 1 password has the lowest privilege.

Password Level:

3

Key Description:

Table 4 describes the function for each softkey and the hardkeys when using the *Password Entry* sub-screen.

Table 4. Softkey Description.

Softkey	Description
+	Increments the password digit referenced by the cursor.
-	Decrements the password digit referenced by the cursor.
Apply	Saves the modified password levels.
Cancel	Cancels any password modifications and returns to the previous screen.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Return to the <i>Display Setting</i> screen.

Inactive Keys:

Select

Exit from Screen:

Apply, Cancel, Back or Keyboard Inactivity Timeout

Setup		!!
Contrast Level	60.000 PCT	+
Backlight	Auto	-
Beep on New Alarm	Off	-
Inactivity Timeout	3.00 MIN	
Time Format	12	Apply
Date Format	MM / DD / YYYY	
Engineering Units	English	Cancel

Entry to Screen:

Setting > Setup

Description:

Use this screen to configure the following parameters:

Contrast	This field displays the current contrast level of the LCD. The values can be changed using the +/- softkey and can be saved by using the <i>Apply</i> softkey.
Backlight Mode	This field displays the current backlight mode. The possible backlight modes are Auto/On/Off. The values can be changed using the +/- softkey and can be saved by using the <i>Apply</i> softkey. When "Auto" is chosen, the LCD backlight will be turned off after a keyboard inactivity of 1 minute. When "On" is chosen, the LCD backlight will be continuously ON. When "Off" is chosen, the LCD backlight will be continuously OFF.
Beep on new alarm	This field specifies whether the beeper is activated (thereby producing a beep) upon reception of any new alarms. The possible values for this field is ON/OFF. The values can be changed using the +/- softkey and can be saved by using the <i>Apply</i> softkey. When "On" is chosen, the beeps are generated upon reception of new alarms or if there are any unacknowledged alarms. When "Off" is chosen, the beeps are suppressed upon reception of new alarms or if there are any unacknowledged alarms.
Inactivity Timeout	This field specifies the Keyboard Inactivity Timeout value in minutes. The default value is 3 minutes, but the user can set it to any number in the range of 0 to 600 minutes. When no keyboard activity is detected for the timeout specified in this field, (i.e., the Inactivity Timeout expires) the CD will automatically revert back to the Main Screen irrespective of what the current screen was. Once the control reverts to the Main Screen, the password levels specified earlier will also be removed. The user has to key the passwords again to enter various screens. This is a security feature. By specifying a value of 0 for this field, control will not revert to the Main Screen even if keyboard inactivity is detected indefinitely.
Time Format	This field specifies the format for displaying the time. The time can be displayed in either the 12-hour format or 24-hour format. The values can be changed using the +/- softkey and can be saved by using the <i>Apply</i> softkey.
Date Format	This field specifies the format for displaying the date. The date can be displayed in either the mm/dd/yyyy format or dd/mm/yyyy format. The values can be changed using the +/- softkey and can be saved by using the <i>Apply</i> softkey.
Engineering Units	This field specifies the format for displaying the Engineering Units. Possible values for this field are English/SI/User modes. Currently, the CD does not support the User Mode. The values can be changed using the +/- softkey and can be saved by using the <i>Apply</i> softkey.

Password Level:

3.

Key Description:

Table 5 describes the function for each softkey when using the *Setup* sub-screen.

Table 5. Softkey Description.

Softkey	Description
+	Gets the next value/option for a particular configure item.
-	Gets the previous value/option for a particular configure item.
Apply	Saves the modified values.
Cancel	Cancels the modified values and reverts to <i>Display Setting</i> screen.

Inactive Keys:

Left, Right, Select

Exit from Screen:

Apply, Cancel, Back or Keyboard Inactivity Timeout

Time Change

Date / Time				!!
Jul / 15 / 1999				+
Month / Day / Year				-
08	:	10	:	48
Hour		Min		Sec
				Apply
				Cancel

Day Of Week / Time				!!
WEDNESDAY				+
				-
08	:	10	:	48
Hour		Min		Sec
				Apply
				Cancel

Entry To Screen:

Setting > Time

Description:

This screen is used for viewing and modifying the time & date information stored in the time master which can be an Excel 15A or a Q7300 whichever is configured as the Time master. If no time masters are configured, then CD will get the time from the first Excel 15A/Q7300 that it encounters in its physical Device List (PDL).

The first screen shown above (titled as Date/Time) is displayed when the CD fetches date and time information from an Excel 15A. For an Excel 15A, the Month field takes values from *Jan* to *Dec*. The Day field takes values from 1 through 31 depending on the month.

The second screen above (titled as Day Of Week/Time) is displayed when the CD fetches information from a Q7300. The CD does not display the year and the month when it fetches time/date information from the Q7300, instead it displays the day of the week which can take values from SUNDAY..SATURDAY.

The Hour field takes value from 0 through 23. The Min Field takes value from 0 through 59. The Sec field takes values from 0 through 59.

If the CD does not have a Excel 15A or a Q7300 configured in its tables, it will display a message saying that there is no source to fetch time as follows:

<p>No Source for fetching Time</p>

If the CD has failed to detect the time master or failed to acquire the UTC information during its initialization, it will attempt to acquire the necessary information at this point of time. The following screen will be shown to indicate that the CD is acquiring the UTC information from one or more Excel 15As from which it failed to acquire the information. Observe that the time and date fields are still not acquired.

Date / Time		!!
MMM / 00 / 0000		+
Month / Day / Year		-
12	: 00	: 00
Hour	Min	Sec
Apply		
Cancel		
Logging OFF		Rxed 100%

When the user presses the Apply softkey, the CD writes the modified date/time to the time master. The CD also writes the modified time to all the controllers that take time as input but are not bound to the Time master. The CD displays a message "Writing to S:N" in the last row, when it writes the time to each of the controllers as follows:

Date / Time		!!
Jul / 15 / 1999		+
Month / Day / Year		-
08	: 10	: 48
Hour	Min	Sec
Apply		
Cancel		
Writing time to 1:3		

Password Level:

3.

Key Description:

Table 6 describes the function for each softkey when using the *Time* sub-screen.

Table 6. Softkey and Hardkey Description.

Softkey	Description
+	Increments the value in the field.
-	Decrements the value in the field.
Apply	If there is a time Master configured, the CD sends the modified values to this time master. If no time master is configured, CD sends modified values to all Excel 15A's configured in its Physical Device List (PDL)
Cancel	Cancels the modified date & time information and returns to the <i>Display Setting</i> screen.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Return to the <i>Display Setting</i> screen.

Inactive Keys:

Select

Exit from Screen:

Apply, Cancel, Back or Keyboard Inactivity Timeout

Entry to Screen:

Whenever the next screen requires a higher password level than the current level being used, this screen appears.

Description:

This screen allows the user to enter a password. This screen is automatically displayed whenever the password required for a particular function is higher than the password in use. The password entered is compared with the required password level. If the new screen needs a password level lesser than the existing password level, this password entry screen will not be displayed. Once the required level of password is given by the user, the next screen will be displayed.

Password Level:

Not required. The screen will automatically appear whenever a higher password level is required.

Key Description:

Table 7 describes the function for each softkey when using the *Password Check* screen.

Table 7. Softkey and Hardkey Description.

Softkey	Description
+	Increments the password digits in steps of 1.
-	Decrements the password digits in steps of 1.
Apply	If the entered password matches with what is required for the next screen, the next screen is displayed. With wrong password, an error beep is generated and the screen stays on.
Cancel	Cancels the entered password and returns to the previous screen.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Back	Go to the previous screen.

Inactive Keys:

Up, Down, Select

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

Alarm Details		!!
Total # Alarms = 39		Silence
<Object Name>		Next
<Alarm Text>		Prev
<Additional Alarm Text>		
Seq# 1 Of 39 Priority 1		
Date/Time Jul/22/1999 10:30 AM		Ack

Entry to Screen:*Main screen > Alarms***Description:**

This screen displays the detailed information of all alarms. The highest priority alarms will be listed on the top. The Alarms Details that are displayed in this screen are as follows:

<Object name> – The name of the object that originated the alarm. The name is obtained from the Logical Device List (LDL) maintained by the Command Display.

If the Command Display cannot find the logical device entry in its LDL, it will display the string "**Unknown_LDT (S:N)**", where S:N is the subnet/node of the controller which generated the alarm, but whose entries are not been selected for the Command Display.

<Alarm Text> – The text that corresponds to the Alarm Type. The Command Display maintains a list of alarm strings that correspond to each alarm type from each controller. For point alarms, the Command Display display the point alarm strings.

If a controller alarm type is not recognized by the Command Display, it will display the string "**Unknown_Code (X)**", where X is the alarm code which was not recognized by the Command Display.

If the Command Display cannot find a matching alarm string for a point alarm, it will display "**PointAlarm:C, A, O**", where C is the alarm type, A is the attribute ID and O is the Object ID received in the alarm.

<Additional Alarm Text> – For point alarms, this corresponds to the information such as "Low Warning" or "High Warning".

Sequence # - Sequence number of this alarm with respect to the total alarms present.

Priority - The priority assigned by the user. The priorities of the alarms can be in the range of 0 – 15 with 0 being the highest priority.

Date/Time – The date and time as recorded by the originator of the alarm. The Date & Time will be displayed in the current format available in the Command Display. The Time format can be 12-hour mode or 24-hour mode. The Date format will be displayed in the MMM/DD/YYYY or DD/MMM/YYYY modes.

If there are no alarms to be displayed, the Command Display shows the following message and returns back to the Main Screen.

No alarms found

Control also returns to the Main Screen when all the alarms are acknowledged by the user.

Password Level: 1.

Key Description: Table 8 describes the function of each softkey when using the *Alarms* screen.

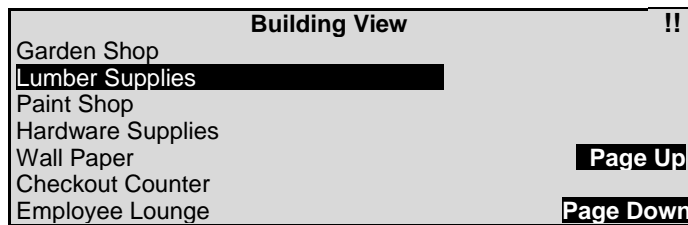
Table 8. Softkey Description.

Softkey	Description
Silence	Silences the beep (if enabled). This will stop the beeping sound until new alarms arrive
Next	Displays the detailed information of the next alarm received by the CD.
Prev	Displays the detailed information of the previous alarm in the sequence.
Ack	Acknowledge the Alarm currently in view. Acknowledged alarms will not be shown again.

Inactive Keys: *Left, Right, Up, Down, and Select*

Exit from Screen: *Back, or Keyboard Inactivity Timeout*

Building View



Entry to Screen: *Main screen >BuildngVw*
This screen is displayed when *BuildngVw* softkey on the Main screen is pressed. However the control comes to this screen only when there are more than one logical groups.

Description: This screen displays the list of logical groups configured in Command display. Most recently used logical groups (seven out of fifty) are displayed on the first page. Scrolling off this page will put all the logical groups in an alphabetized order. If the number of groups are less than or equal to seven, then all the groups will be displayed in the sorted order and there will not be any most recently groups being displayed.

Password Level: 0.

Key Description: Table 10 describes the function of each softkey and the hardkey, when using the *Building View* screen.

Table 10. Softkey and Hardkey Description.

Softkey	Description
Page Up	Go to the beginning of the previous page. Pressing this key on first page will display the last page (wrap-around).
Page Down	Go to the beginning of the next page. Pressing this key on the last page will display the first page (wrap-around).
Hardkey	Description
Left	Go to the beginning of the previous page. This is in addition to the Page Up softkey (third)
Right	Go to the beginning of the next page. This is in addition to the Page Down softkey (bottom)
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go to Main screen.
Select	Highlighted line by the cursor is chosen as the selected logical group . This is required to get details of any of the logical groups listed under Building View.

Inactive Keys: *Softkey1(first) and Softkey2 (second)*

Exit from Screen: *Back or Keyboard Inactivity Timeout*

Logical Group View

Garden Shop		!!
Accessories	73.20 DF	Schedule
Bird Cages Lights	ON	
Fence&Lattice	29.80 A	
Lawn&Patio Items	10.256 PSI	
Excel 15A NODE_A	68.00 DF	Page Up
Scott's Supplies	71.40 DF	
Manager Office	72.00 DF	Page Down

Entry to Screen: *BuildingVw > Select*

Description: This screen is displayed when one of the logical groups from the Building view is selected by pressing the **Select** softkey.

This screen displays information of all the logical objects/loops configured in Command Display for a particular group. If there are more than 7 logical objects, the user has to scroll down the list using the *Down* key. For each Logical Object, the value of the primary control variable defined for the logical object is also displayed. The Up and Down hardkeys are used to scroll by one row while the PageUp and PageDown softkeys are used to scroll by 7 rows (a page). If a Logical Object does Not have Point Information, "No Points Found" is displayed & control returns to the Logical Groups View Screen.

Password Level: 0.

Key Description: Table 11 describes the function of each softkey when using the *Logical Group* screen.

Table 11. Softkey & Hardkey Description.

Softkey	Description
Schedule	Starts acquiring the schedules from either Q7300 or the Excel 15A depending on which schedule a logical object is associated with. The schedules are acquired using file transfer. The status of the file transfer will be displayed on the screen. " <i>No schedule available / assigned</i> " message will be displayed for objects which do not have any schedules assigned to them
Page Up	Go back to the previous page thereby displaying the previous 7 items
Page Down	Go back to the next page thereby displaying the next 7 items.
Hardkey	Description
Left	Go to the beginning of the previous page. This is in addition to the Page Up softkey (third)
Right	Go to the beginning of the next page. This is in addition to the Page Down softkey (bottom)
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go back to the <i>Building View</i> screen.
Select	Pressing this key on a logical object displays the Room Details view for the logical object. If a Logical Object does not have Point Information, "No Points Found" is displayed & control comes back to Logical Groups View Screen

Inactive Keys:

Softkey 2 (second)

Exit from Screen:

Back or Keyboard Inactivity Timeout

Room Details

Accessories		!!
Room Temp	71.30 DF	Next
Control Setting	82.50 DF	
Occupancy Status	Bypass	Prev
Operating Mode	Heat	
Fan selection	Auto	ChngValue
Fan1 on	Off	
Stages on	1	OccOvrIde

Entry to Screen:

Logical Group View screen > Select

Description:

This screen displays the variables/points of an object selected in the Logical Group Screen. For each object, certain points/variables are displayed. Each object will have a predefined list of available points/variables for display. Using LonSpec user can choose which variables are to be displayed for a logical object. The displayed values are refreshed periodically. For an Excel 15A /Excel 15C node objects, the local analog/digital input points can be chosen for display.

Password Level:

0.

Key Description:

Table 12 describes the function of the *Next*, *Prev*, *ChngValue*, *OccOverride* softkeys when viewing the *Room Details* screen.

Table 12. Softkey and Hardkey Description.

Softkey	Description
Next	Displays the details view of the next logical object in the list of objects. When this key is pressed on the last object, the first object for this group will be shown (wrap-around effect). If the next logical object does not have any point information, then that particular object is skipped.
Previous	Displays the details view of the previous logical object in the list of objects. When this key is pressed on the first object, the last object for this group will be shown (wrap-around effect). If the previous logical object does not have any point information, then that particular object is skipped.
ChngValue	View/Modify the set points of the logical object, if setpoints functionality is present for the logical object.
OccOvrde	Displays the bypass screen corresponding to the logical object, if bypass functionality is present for the logical object.
HardKey	Description
Left	Go to the beginning of the previous page. This is in addition to the Page Up softkey (third)
Right	Go to the beginning of the next page. This is in addition to the Page Down softkey (bottom)
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go back to the Logical Group View

Inactive Keys:*Select***Exit from Screen:**

Back or Keyboard Inactivity Timeout

Bypass Screen

Accessories		!!
Current Override Status:		CancelOvrD
TIMED OCCUPIED		Timed Occ
Minutes Remaining: 34.00 MIN		Cont Occ
		Cont Unoc

Entry to Screen:*Room Details screen > OccOvrde***Description:**

This screen is displayed when the OccOvrde key is pressed from the Room Detail screen. The screen displays the Bypass variable of the object selected in the Rooms (Objects) Detail screen. The possible states are:

- NOT IN OVERRIDE
- TIMED OCCUPIED
- CONTINUOUS OCCUPIED
- CONTINUOUS UNOCCUPIED

The bypass remaining in minutes will be displayed when it is applicable.

Password Level:

1.

Key Description:

Table 12 describes the function for each softkey and the hardkey when using the Bypass Screen view.

Table 12. Softkey and Hardkey Description.

Softkey	Description
CancelOvr	Has no effect on Current Override Status.
Timed Occ	Sets the state to Bypass.
Cont Occ	Sets the state to continuous occupied.
Cont Unocc	Sets the state to continuous unoccupied.
HardKey	Description
Back	Go back to the Room Details screen.

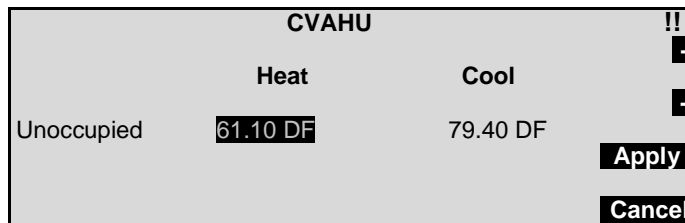
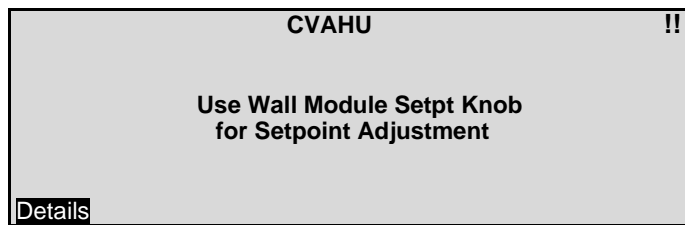
Inactive Keys:

Left, Right, Up, Down, and Select

Exit from Screen:

Back or Keyboard Inactivity Timeout

Change Temperature for CVAHU – Wall module configured



Entry to Screen:

Room Details screen > ChngValue

Description:

This screen is displayed when the user wants to view the setpoints for CVAHU.

If the Wall Module is configured, the softkeys are not shown. The first screen that is shown above does not have softkey functions and indicates that the wall module setpoint knob should be used to modify the setpoints.

The second screen that is shown above will be displayed when the user selects the "Details" on the first screen. The Command Display displays only the unoccupied setpoints, which can be modified by the user. The Occupied and Standby setpoints are not shown. The valid relationship between the setpoints in this screen is (UnOccHeat < UnOccCool).

Password Level:

1.

Key Description:

Table 13. Softkey and Hardkey Description.

Softkey	Description
+	Increment setpoint values. When this key is pressed once, the setpoints increase by 0.1. When this key is pressed continuously, the setpoints increase by 1.0
-	Decrement setpoint values. When this key is pressed once, the setpoints decrease by 0.1. When this key is pressed continuously, the setpoints decrease by 1.0
Apply	Propagates the modified setpoint values to the controller and modifies the application version information of the target controller and returns to the Room Details screen.
Cancel	Cancels the modified setpoints and returns to the Room Details Screen
Hardkey	Description
Down	Displays the detailed setpoints screen, when the cursor is placed on <i>Details</i> .

Inactive Keys:

(For the First Screen): *Left, Right, Up, Select, Softkey1 (top), Softkey2 (second), Softkey3(third), Softkey4 (bottom)*

(For the Second Screen): *Up, Down, Select*

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

**Additional Status Information
When CD is acquiring setpoints:**

When the Command Display is acquiring setpoints from the controller, the status information is displayed on the screen as shown below. The string “Acquiring Values” keeps flashing on the last row. The softkeys are not functional until the values are displayed. If the user wishes to exit from this screen at this point of time, the *Back* key can be used.

	Unit Vent	!!
	Controller Setpoints	+
	Heat Cool	-
Occupied	-----	
		Apply
Details	Acquiring Values	Cancel

When modifying values, if the Unoccupied Heat and Unoccupied Cool setpoints become equal, the Command Display displays the status message: “**Setpts should not be equal**”. For example, in the screen shown below, the user attempted to increase the Unoccupied Heat value from 79.3 DF, and Since this value cannot exceed or be equal to 79.4 DF the message “Setpts should not be equal” is flashes on the screen.

	CVAHU	!!
	Heat Cool	+
		-
Unoccupied	79.3 DF	
		Apply
	Setpts should not be equal	Cancel

Change Temperature for CVAHU – Wall module not configured

CVAHU			!!
Controller Setpoints			+
	Heat	Cool	-
Occupied	61.1 DF	79.4 DF	
			Apply
Details			Cancel

CVAHU			!!
	Heat	Cool	+
			-
Occupied	62.8 DF	75.4 DF	
Standby	61.6 DF	75.9 DF	Apply
Unoccupied	55.6 DF	79.5 DF	Cancel

Entry to Screen:

Room Details screen > ChngValue

Description:

This screen is displayed when the user wants to view the setpoints for CVAHU.

When the wall module is not configured, the Command Display displays the first screen shown above. The user can modify the Occupied Heat and Occupied Cool setpoints, as long as the Occupied Heat is less than Occupied Cool. The Command Display will not accept a value for the setpoints if it would make both occupied setpoints equal and issues a message **“Setpts should not be equal”**. The valid relationship between the setpoints in this screen is (OccHeat < OccCool).

The second screen that is shown above will be displayed when the user selects the “Details” on the first screen. The Command Display displays all the setpoints which can be modified by the user. In this screen, the Command Display will not accept a value for the setpoints if it would make two setpoints equal and issues a message **“Setpts should not be equal”**. The valid relationship among the setpoints in this screen is (UnOccHeat < StdbHeat < OccHeat < OccCool < StdbCool < UnOccCool).

Password Level:

1.

Key Description:

The following softkey description is applicable for the above screens.

Table 13. Softkey and Hardkey Description.

Softkey	Description
+	Increment setpoint values. When this key is pressed once, the setpoints increase by 0.1. When this key is pressed continuously, the setpoints increase by 1.0
-	Decrement setpoint values. When this key is pressed once, the setpoints decrease by 0.1. When this key is pressed continuously, the setpoints decrease by 1.0
Apply	Propagates the modified setpoint values to the controller and modifies the application version information of the target controller and returns to the Room Details screen.
Cancel	Cancels the modified setpoints and returns to the Room Details Screen
Hardkey	Description
Down	Displays the detailed setpoints screen, when the cursor is placed on <i>Details</i> .

Inactive Keys:

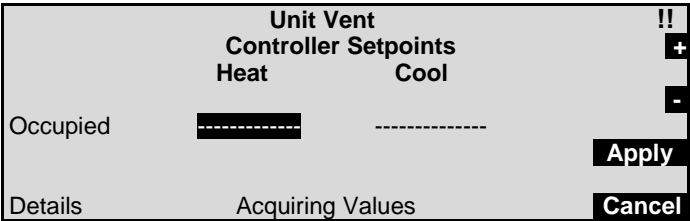
(For the First Screen): Up, Select

(For the Second Screen): Select

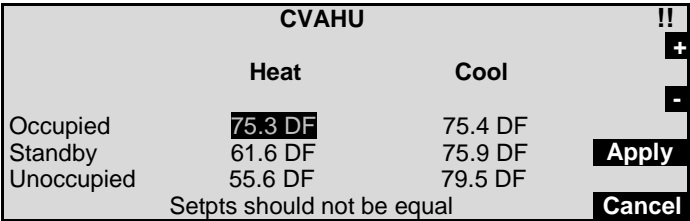
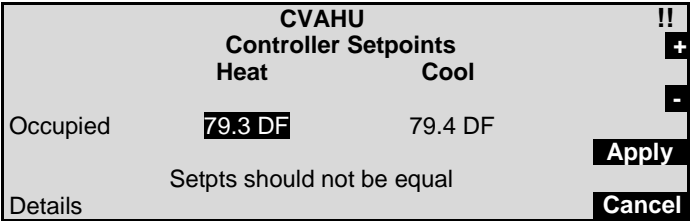
Exit from Screen: *Back, Apply, Cancel or Keyboard Inactivity Timeout*

**Additional Status Information
When CD is acquiring setpoints:**

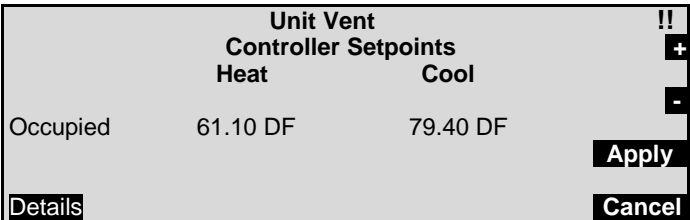
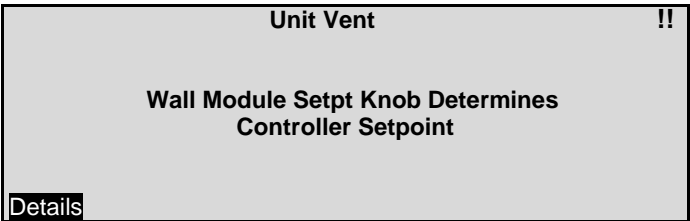
When the Command Display is acquiring setpoints from the controller, the status information is displayed on the screen as shown below. The string “Acquiring Values” keeps flashing on the last row. The softkeys are not functional until the values are displayed. If the user wishes to exit from this screen at this point of time, the *Back* key can be used.



When modifying values, if the any two setpoints are attempted to be made equal, the Command Display displays the status message: “Setpts should not be equal” as shown in the screens below. In the screens shown below, the Occupied Heat setpoint is being incremented and when it is about to become equal to Occupied Cool the status message “Setpts should not be equal” is flashed on the screen.



Change Temperature for Unit Ventilator and VAV2 (Setpoints A)



Entry to Screen: *Room Details screen > ChngValue*

Description: This screen is displayed when the user wants to view the setpoints for VAV2, and Unit Ventilator.

If the Wall Module is present, the softkeys are not shown. The first screen that is shown above does not have softkey functions and indicates that the wall module setpoint knob determines the controller setpoint.

If the Wall Module is not present, the softkeys are enabled. The second screen that is shown above has the softkey functions. This enables the modification features of the setpoints from the Command Display, when Wall Module is not present.

To get to the detailed view of the setpoints for Unit Ventilator or VAV2, place the cursor on the last row (Containing “Details”) and press the *Down* key. In the detailed view of the setpoints, the modifications are allowed irrespective of the presence/absence of the Wall Module.

The cursor will be placed on Occupied Heat, if the mode is heat. If the mode is cool, the cursor will be placed on Occupied Cool.

Password Level:

1.

Key Description:

The following softkey description is only applicable for the second screen shown above. The softkey features are enabled if the Wall Module is not present, thereby allowing modifications from the Command Display.

Table 13. Softkey and Hardkey Description.

Softkey	Description
+	Increment setpoint values. When this key is pressed once, the setpoints increase by 0.1. When this key is pressed continuously, the setpoints increase by 1.0
-	Decrement setpoint values. When this key is pressed once, the setpoints decrease by 0.1. When this key is pressed continuously, the setpoints decrease by 1.0
Apply	Propagates the modified setpoint values to the controller and modifies the application version information of the target controller and returns to the Room Details screen.
Cancel	Cancels the modified setpoints and returns to the Room Details Screen
Hardkey	Description
Down	Displays the detailed setpoints screen, when the cursor is placed on <i>Details</i> .

Inactive Keys:

(With Wall Module present): *Left, Right, Up, Select, Softkey1 (top), Softkey2 (second), Softkey3(third), Softkey4 (bottom)*

(Without Wall Module present): *Left, Right, Up, Select*

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

**Additional Status Information
When CD is acquiring setpoints:**

When the Command Display is acquiring setpoints from the controller, the status information is displayed on the screen as shown below. The string “Acquiring Values” keeps flashing on the last row. The softkeys are not functional until the values are displayed. If the user wishes to exit from this screen at this point of time, the *Back* key can be used.

Unit Vent		!!
Controller Setpoints		+
Heat Cool		-
Occupied	-----	
		Apply
Details	Acquiring Values	Cancel

Change Temperature for Excel 15A, Unit Ventilator, and VAV2 (Setpoints B)

Unit Vent			!!
	Heat	Cool	+
Occupied	61.10 DF	79.40 DF	-
Standby	61.60 DF	75.90 DF	Apply
Unoccupied	55.60 DF	79.50 DF	Cancel

Entry to Screen:

1) For Excel 15A: *Room Details* screen > *ChngValue*

2) For Unit Ventilator, VAV2: Press *Down* when Setpoint-A screen is displayed and when the cursor is on the last row i.e. on *Details* press the Down arrow key to go to this screen.

Description:

On entry into this screen by any one of the methods mentioned in the *Entry to Screen*, the cursor will be placed on Occupied Heat, if the mode is heat. If the mode is cool, the cursor will be placed on Occupied Cool. In this screen, the setpoints can be modified and saved to the target controller (irrespective of the presence/absence of wall module for the Excel 10s)

Password Level:

1.

Key Description:

Table 14 describes the function for each softkey.

Table 14. Softkey Description.

Softkey	Description
+	Increment setpoint values. When this key is pressed once, the setpoints increase by 0.1. When this key is pressed continuously, the setpoints increase by 1.0
-	Decrement setpoint values. When this key is pressed once, the setpoints decrease by 0.1. When this key is pressed continuously, the setpoints decrease by 1.0
Apply	Propagates the modified setpoint values to the controller and modifies the application version information of the target controller and returns to the Room Details screen.
Cancel	Cancels the modified set points and returns to the Room Details screen.

Inactive Keys:

Select

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

**Additional Status Information
When CD is acquiring setpoints:**

When the Command Display is acquiring setpoints from the controller, the status information is displayed on the screen as shown below. The string "Acquiring Values" keeps flashing on the last row. The softkeys are not functional until the values are displayed. If the user wishes to exit from this screen at this point of time, the *Back* key can be used.

Unit Vent			!!
	Heat	Cool	+
Occupied	-----	-----	-
Standby	-----	-----	Apply
Unoccupied	-----	-----	Cancel
Acquiring Values			

Set Points of Control Loops (Excel 15A/Excel 15C)

Water Flow Control		!!
		+
Occupied	12 CFM	-
Standby	10 CFM	
Unoccupied	5 CFM	
		Apply
		Cancel

Entry to Screen:

Room Details screen > ChngValue

Description:

This screen is displayed when the user wants to view the setpoints for Excel 15A/Excel 15C Control loops. Each Control loop in the Excel 15A/Excel 15C can be configured with different engineering units. Depending on the Engineering Units of the Control loop, the step/delta values for incrementing/decrementing the setpoints are different.

Password Level:

1.

Key Description:

Table 15 describes the function for each softkey when using the *ChngValue* from the Room Details screen.

Table 15. Softkey Description.

Softkey	Description
+	Increment setpoint values.
-	Decrement setpoint values.
Apply	Propagates the modified setpoint values to the controller and modifies the application version information of the target controller and returns to the Room Details screen.
Cancel	Cancels the modified setpoints. The control returns to the Room Details screen.

Inactive Keys:

Left, Right, and Select

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

**Additional Status Information
When CD is acquiring setpoints:**

When the Command Display is acquiring setpoints from the controller, the status information is displayed on the screen as shown below. The softkeys are not functional until the values are displayed. If the user wishes to exit from this screen at this point of time, the *Back* key can be used.

Water Flow Control		!!
		+
Occupied	-----	-
Standby	-----	
Unoccupied	-----	
		Apply
Acquiring Values		Cancel

Change Temperature (Q7300)

Q7300				!!
	Heat		Cool	
Occupied	61.10 DF		79.40 DF	
Unoccupied	61.60 DF		75.90 DF	
				Apply
				Cancel

Entry to Screen:

Building View screen > Room Details > ChngValue

Description:

This screen is displayed when the user wants to view the Q7300 setpoints. To get this screen the user has to make sure that the cursor highlights a Q7300 (named objects) before pressing the ChngValue key, in the Room Details screen. To display the setpoints, the Command Display acquires the setpoint limits by doing a File Transfer. If the mode is heat, the cursor is placed on Occupied Heat. If the mode is cool, the cursor is placed on Occupied Cool.

The first screen above is displayed when the setpoint limits are being acquired.

The second screen above is displayed when the setpoint values are being acquired. When the setpoint values are being acquired, the softkeys are not functional. The user can use the *Back* key to exit from the screen if desired.

The second screen shows that the Command Display is about to complete the acquisition of setpoint limits.

Password Level:

1.

Key Description:

Table 16 describes the function for each softkey when using the *ChngValue* (Q7300) screen.

Table 16. Softkey Description.

Softkey	Description
+	Increments setpoint values. Press this key once to increase the setpoints in steps of 0.1. Press this key continuously to increase the setpoints in steps of 1.0.
-	Decrements setpoint values. Press this key once to decrease the setpoints in steps of 0.1. Press this key continuously to decrease the setpoints in steps of 1.0.
Apply	Propagates the modified setpoint values to the controller and modifies the application version information of the target controller and returns to the <i>Room Details</i> screen.
Cancel	Cancels the modified setpoints and returns to the <i>Room Details View</i> screen.

Inactive Keys:

Select

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

**Additional Status Information
When CD is acquiring setpoints:**

When the Command Display is acquiring setpoints from the controller, the status information is displayed on the screens as shown below. The softkeys are not functional until the values are displayed. If the user wishes to exit from this screen at this point of time, the *Back* key can be used.

The first screen shown below indicates that the setpoint limits are being acquired. The string "Acquiring Limits" will be flashed on the last row.

The second screen below indicates that the setpoint values are being acquired. The string "Acquiring Values" will be flashed on the last row.

Q7300		!!
	Heat Cool	+
Occupied	-----	-
Unoccupied	-----	Apply
Logging ON	Acquiring Limits	Cancel

Q7300		!!
	Heat Cool	+
Occupied	-----	-
Unoccupied	-----	Apply
Acquiring Values		Cancel

Excel 15A Schedules

Excel 15A Node Obj		!!
SCHEDULE_1		Days
SCHEDULE_2		
SCHEDULE_3		Temp
SCHEDULE_4		
SCHEDULE_5		Special
SCHEDULE_6		
SCHEDULE_7		Holiday

SCHEDULE_1		!
		Days
		Temp
		Special
		Holiday

Entry to Screen:

Logical Group view screen >Schedules

Description:

This screen is displayed when the *Schedules* softkey is pressed and the cursor is highlighting a logical object having a Excel 15A schedule. If the selected object is a Excel 15A node object, all the schedules in the Excel 15A can be viewed (See the first screen above). Otherwise, the schedule assigned to the object will be displayed as in the second screen above. If no schedule is assigned to the object, an appropriate message will be displayed.

The softkeys allow you to view the details of the schedule object.

Password Level:

2.

Softkey Description:

Table 18 describes the function for each softkey and hardkey when using the *Schedules* screen.

Table 18. Softkey and Hardkey Description.

Softkey	Description
Days	Press this softkey to get the details of Day schedule.
Temp	Press this softkey to get the details of Temporary schedule.
Special	Press this softkey to get the details of Special schedule.
Holiday	Press this softkey to get the details of Holiday schedule.
Hardkey	Description
Up	Moves the cursor up by a row when all the eight schedules are displayed. This is applicable only for an Excel 15A node object schedules.
Down	Moves the cursor down by a row when all the eight schedules are displayed. This is applicable only for an Excel 15A node object schedules.
Back	Control returns to the Logical Groups View Screen. If any of the schedule data is modified, the schedules are written/saved to the controller before returning to the Logical Groups View Screen.

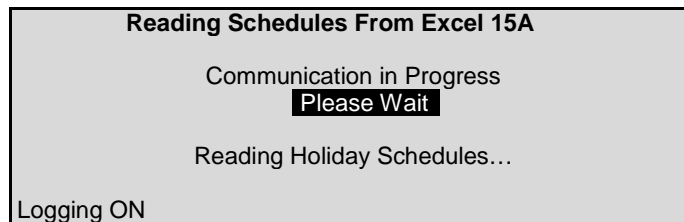
Inactive Keys:*Left, Right***Exit from Screen:***Back or Keyboard Inactivity Timeout.***Additional Status Information
When CD is reading Schedules:**

When the Command Display is reading the schedule information from the Excel 15A, the status information related to the file transfer is displayed on the screen. The size of the successfully received file is displayed as a percentage. Before reading schedule a "Logging ON" message is displayed. After reading schedules a "Logging OFF" message is displayed for every schedule. The following information is acquired by the Command Display in the order specified.

- Holiday Schedules.
- Weekly Schedules.

The following screen shows the status information when the Holiday Schedules are acquired from the Excel 15A.

The following screen is displayed when the Command Display is logging on to the target controller before reading the schedule information.



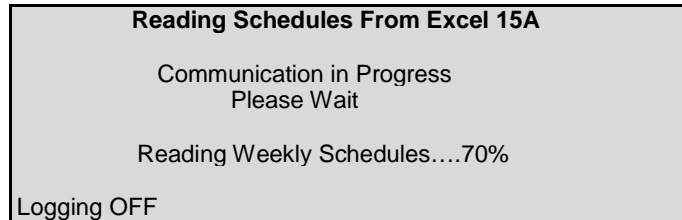
The following screen is displayed when the Command Display is acquiring the Holiday schedule information. The completion status is indicated in percentage.



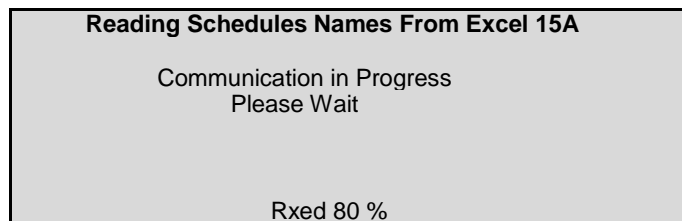
The following screen is displayed when the Command Display is logging off after acquiring the Holiday schedule information.



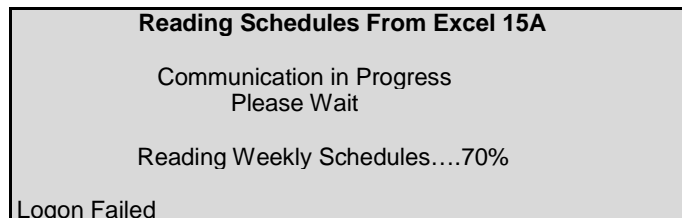
The following screen shows the status information when the Weekly Schedules are acquired from the Excel 15A. The Command Display does a login to the target controller before acquiring the weekly schedule information as shown above. After the weekly schedule information is acquired, the Command Display does a logout to the target controller.



When the Command Display has failed to acquire the schedule names from the Excel 15A during initialization, it tries to acquire the schedule names at this point of time. The following screen shows the status of the operation:



When a login/logout operation fails, the Command Display displays a message on the screen. The following screen shows that login operation failed before acquiring the weekly schedules.



Additional Status Information When CD is Saving Schedules:

When the Command Display is saving (writing) the schedules information, modified by the user, back into the Excel 15A, the status information related to the file transfer is displayed on the screen. The size of the successfully saved file is displayed as a percentage. Before writing schedule "Logging On" message is displayed. After reading schedule "Logging OFF" message gets displayed. The following information is saved by the Command Display in the order specified

- Holiday Schedules.
- Weekly Schedules.

The following screen shows the status information when the Holiday Schedules are saved to the Excel 15A. The Command Display does a login to the target controller first. It then writes the schedule data and performs a logoff from the target controller. The following three screens show these operations that take place while writing holiday schedules.

Writing Excel 15A Schedules

Communication in Progress
Please Wait

Writing Holiday Schedules...

Logging ON

Writing Excel 15A Schedules

Communication in Progress
Please Wait

Writing Holiday Schedule... 75%

Writing Excel 15A Schedules

Communication in Progress
Please Wait

Writing Holiday Schedules...100%

Logging OFF

The following screen shows the status information when the Weekly Schedules are saved to the Excel 15A. The Command Display performs a login to the controller before writing the weekly schedules. Once the weekly schedules are written, the Command Display perform a logoff from the controller.

Writing Excel 15A Schedules

Communication in Progress
Please Wait

Writing Weekly Schedules... 70 %

Schedule Object / Days Schedule

SCHEDULE_1

Monday

E1 08:00 AM UNOCCUPIED

E2 01:00 PM OCCUPIED

E3 02:00 PM STANDBY

E4 08:00 PM OCCUPIED

E5 09:00 PM UNOCCUPIED

E6 10:00 PM UNOCCUPIED

Apply

NextDay

Entry to Screen: Logical Group View screen > Schedules > Days

Description: This screen is used to view the Days schedule information of a particular schedule object in Excel 15A. For each day of the week, six events (E1..E6) will be displayed along with the hour of the day information (in both 12-hour format and 24-hour format) and the states such as Occupied, Standby, and Unoccupied. The above example shows the Schedule_1 information for Monday. Pressing *Nextday* softkey will display the Schedule_1 information for Tuesday and so on. It will wraparound to display all seven days of the week. The Time information and the state information can be modified using the +/- Softkeys. If any of the events are not configured, the time will be displayed as 0 with the state as Unconfigured. The modified values can be saved using the *Apply* softkey.

Password Level: 2.

Key Description:

Table 19 describes the function for each softkey and hardkeys when using the *Days* screen under *Schedules*.

Table 19. Softkey and Hardkey Description.

Softkey	Description
+	Increments the value in the field
-	Decrements the value in the field
Apply	Saves modified values.
Nextday	Go to the next day of the schedule object. Wrap around at the end.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go the previous screen.

Inactive Keys:

Select

Exit from Screen:

Back or Keyboard Inactivity Timeout

Schedule Object / Temp Schedules

SCHEDULE_1				!!
Temporary One (Monday)				+
E1	08:00 AM UNOCC	Start	01 / Jan	
E2	01:00 PM OCC	2000		-
E3	02:00 PM STANDBY	Stop	02 / Jan	
E4	08:00 PM UNOCC	2000		Apply
E5	09:00 PM UNOCC			
E6	11:00 PM UNOCC			NextTemp

Entry to Screen:

Logical Group screen > Schedule > Temp

Description:

This screen is used to view the Temporary schedule information of an Excel 15A schedule object. Each schedule object in the Excel 15A supports up to 2 temporary schedules. For each temporary schedule, six events (E1..E6) will be displayed along with the hour of the day information (in both 12-hour format and 24-hour format) and the states such as Occupied, Standby, and Unoccupied. The above example shows the Schedule_1 information for "Temporary One" schedule. It indicates that from 1st Jan 2000 to 2nd Jan 2000 the above temporary schedule is executed. Pressing the *NextTemp* softkey will display the Schedule_1 information for "Temporary Two" schedule. This softkey will alternate between the two temporary schedules of the Excel 15A. The Time information and the state information can be modified using the +/- Softkeys. The modified values can be saved using the *Apply* softkey.

Password Level:

2.

Key Description:

Table 20 describes the function for each softkey when using the *Schedule>Temp* screen.

Table 20. Softkey and Hardkey Description.

Softkey	Description
+	Increments the value in the field.
-	Decrements the value in the field.
Apply	Saves modified values and returns to Excel 15A Schedule screen.
Next Temp	Go to the next temporary schedule. Wrap around at the end.
Hotkey	Description
Left	Moves the cursor left by a cell.

Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go the previous screen.

Inactive Keys: *Select*

Exit from Screen: *Back or Keyboard Inactivity Timeout*

Excel 15A Special Schedules

SCHEDULE_1		!!
Special_One		+
E1	08:00 AM UNOCCUPIED	
E2	01:00 PM OCCUPIED	-
E3	02:00 PM STANDBY	
E4	08:00 PM OCCUPIED	Apply
E5	09:00 PM UNOCCUPIED	
E6	11:00 PM UNOCCUPIED	NextSpec

Entry to Screen: *Logical Group screen > Schedule > Special*

Description: This screen is used to view the Special schedule information in a Excel 15A. Each schedule in the Excel 15A supports up to 3 Special schedules. For each Special schedule, six events (E1..E6) will be displayed along with the hour of the day information (in both 12-hour format and 24-hour format) and the states such as Occupied, Standby, and Unoccupied. The above example shows the Schedule_1 information for *Special One* schedule. Pressing the softkey *NextSpec* will display the Schedule_1 information for other special schedules. The Time information and the state information can be modified using the +/- Softkeys. The modified values can be saved using the *Apply* softkey.

Password Level: 2.

Key Description: Table 21 describes the function for each softkey and the hardkey when using the *Schedules Special* screen.

Table 21. Softkey and Hardkey Description.

Softkey	Description
+	Increments the value in the field.
-	Decrements the value in the field.
Apply	Saves modified values and returns to Excel 15A Schedule screen
NextSpec	Go to the next special schedule. Wrap around at the end.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go the previous screen.

Inactive Keys: *Select*

Exit from Screen: *Back or Keyboard Inactivity Timeout*

SCHEDULE_1	Applies to	!!
Holiday One	1 2 3 . 5 6 7 .	PageUp
Holiday Two	. . . 4 5 6 7	
Holiday Three	. . 3 . . 6 7 8	PageDown
Holiday Four	1 2 3 . . 6 7 8	
Holiday Five	. 2 . . 5 6 . .	
Holiday Six	1 2 . 4 5 6 7 .	
Holiday Seven	1 . 3 . 5 6 7 8	

Entry to Screen:

Logical Group View screen > Schedule > Holidays

Description:

This screen displays the list of Holiday Schedules available in the Excel 15A. Each Excel 15A supports 20 Holiday/ Exceptions. To get detailed information on each Holiday schedule, the user has to place the cursor on the particular schedule and press the *Select* softkey.

Against each Holiday schedule, the lists of schedule objects assigned are shown. For example, Holiday One is assigned to Schedule objects with ID 1, 2, 3, 5, 6 and 7. It is not assigned to schedule object ID 4 and 8. Hence, a period is entered. Each time, the screen is scrolled from one Holiday to another, the Schedule ID that applies to a particular schedule, is highlighted. For example, SCHEDULE_1 with ID of 1 will have the first column highlighted when *Up* or *Down* scroll keys are used. In this case, user will be able to guess that SCHEDULE_1 (can be replaced with any user-friendly name) has an ID of 1.

Password Level:

2.

Key Description:

Table 22 describes the function for each softkey and the hardkey when using the *Holiday Schedules* screen.

Table 22. Softkey and Hardkey Description.

Softkey	Description
PageUp	Go to the previous page. When the cursor is on Holiday One which is the very first item, it will wrap around.
PageDown	Go to the next page. When the cursor is on Holiday Twenty, it will wrap around.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row. Highlights the Schedule ID from which this screen was selected.
Down	Moves the cursor down by a row. Highlights the Schedule ID from which this screen was selected.
Back	Go to the previous screen.
Select	Go to the details of the Holiday schedule.

Inactive Keys:

Softkey3 (third), Softkey4 (bottom)

Exit from Screen:

Back or Keyboard Inactivity Timeout

Excel 15A Holiday Schedule Details

Holiday One		!!
Start Date	25 / DEC / 2000	+
End Date	26 / DEC / 2000	-
Assigned Schedule:	Sunday	Apply
Applies to Schedule:	1 2 3 4 5 6 7 8	Cancel

Holiday One		!!
Start Date	FIRST SAT/MAY/EVYR	+
End Date	FIRST SAT/MAY/EVYR	-
Assigned Schedule:	Sunday	Apply
Applies to Schedule:	1 2 3 4 5 6 7 8	Cancel

Entry to Screen:

Logical Group View screen > Schedule> Holidays > Holiday_Schedule_Name

Description:

The above screens display the detailed information on the selected Holiday/Exception schedule. For each Holiday/Exception schedule, the Start Date, End Date, the Day schedule, which is assigned for this Holiday and the applicable schedules are shown. The above screens show the Holiday One schedule information. The date information can be modified using the +/- Softkeys. The modified values can be saved using the *Apply* softkey. As this screen was selected from the SCHEDULE_1 screen, its ID of 1 is highlighted.

The Command Display shows the second screen above, when Day of the week or Reoccurring date selections are made from LonSpec for Holidays and Exception schedules.

Password Level:

2.

Key Description:

Table 23 describes the function for each softkey and hardkey when using the *Holiday Schedules> Select key* screen.

Table 23. Softkey and Hardkey Description.

Softkey	Description
+	Increments the value in the field
-	Decrements the value in the field
Apply	Saves modified values and returns to the Holiday screen of the Schedule object.
Cancel	Cancels the modified values without saving and returns to the Holiday screen of the Schedule object.
Hardkey	Description
Left	Moves the cursor left by a cell.
Right	Moves the cursor right by a cell.
Up	Moves the cursor up by a row.
Down	Moves the cursor down by a row.
Back	Go to the previous screen.

Inactive Keys:

Select

Exit from Screen:

Back, Apply, Cancel or Keyboard Inactivity Timeout

Q7300		Monday	!!
E1	08 : 00 AM	Unoccupied	+
E2	01 : 00 PM	Occupied	-
E3	02 : 00 PM	Unoccupied	
E4	08 : 00 PM	Occupied	
			Apply
			NextDay

Entry to Screen:

Room Details Screen > Schedules

Description:

This screen is displayed when the user wants to view the Q7300 schedule associated with any logical object. For each day of the week, four events (E1..E4) will be displayed along with the hour of the day information (in both 12-hour format and 24-hour format) and the states such as Occupied, Unoccupied and Unconfigured state. The above example shows the Q7300 schedule information for Monday. Pressing on the softkey (bottom), *NextDay* will display the schedule information for Tuesday and so on. The Time information and the state information can be modified using the +/- Softkeys. The modified values can be saved using the *Apply* softkey.

Password Level:

2.

Key Description:

Table 24 describes the function for each softkey when using the *Schedules* screen.

Table 24. Softkey Description.

Softkey	Description
+	Increments the value in the field
-	Decrements the value in the field
Apply	Saves modified values to the controller and returns to the Logical Groups View screen.
Cancel	Cancels the modified values without saving and returns to Logical Groups View screen.

Inactive Keys:

Select

Exit from Screen:

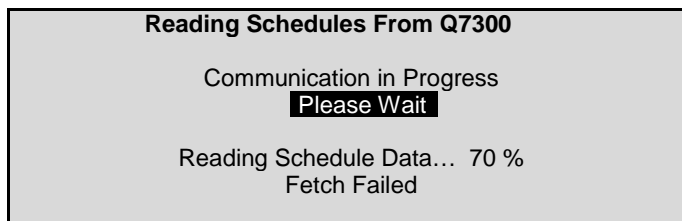
Back or Keyboard Inactivity Timeout

Additional Status Information while reading Q7300 Schedules:

When the Command Display is reading the schedules information from the Q7300, the status information related to the file transfer is displayed on the screen. The size of the successfully received file is displayed as a percentage.

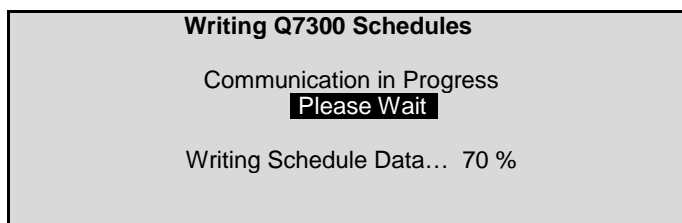
Reading Schedules From Q7300
Communication in Progress
Please Wait
Reading Schedule Data... 70 %

If the file transfer fails, the message *Fetch Failed* is displayed on the screen. For example, the following screen shows the failure message that is displayed due to a file transfer failure (after 70 % transfer) that occurred while reading the schedules information from the Q7300.



**Additional Status Information
while saving Q7300 Schedules:**

When the Command Display is saving the schedules information modified by the user into the Q7300, the status information related to the file transfer is displayed on the screen. The size of the successfully saved file is displayed as a percentage. The following screen shows the status information when the Q7300 Schedules are saved.



The Command Display performs a login to the target controller before reading/writing schedule data. It then performs a logout after reading/writing schedule data to the controller.

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