
CONTENTS

Tool Configuration	2
General Settings Tab	2
Categories and Parameters Tab	5
About the MORE Screen in Zio Lite	6
Home Screen Options	8
Occupancy and Override Tab	9
Fan Command Tab	10
Password Tab	11
Network Access to Zio Lite Fields	12
Sylok Capacity	13
Operation	14
CLCMTR42 Wall Module Keypad Contractor Configuration	14
Tenant Operation of Zio Lite CLCMTR42	15

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TOOL CONFIGURATION

The Zio Lite is configured using the same SBusWallModule wiresheet block as the Zio and Zio Plus, which is located in the BuiltIn folder in the Honeywell LYNX Tool palette. The configuration wizard has been modified to include the new CLCMTR40/42 Zio Lite models.

Because the Zio Lite functionality is a subset of the Zio, it is fairly easy to set up.

Add the SBusWallModule block to the wire sheet, right click on the block, and select Configure Properties to enter the configuration wizard.

General Settings Tab

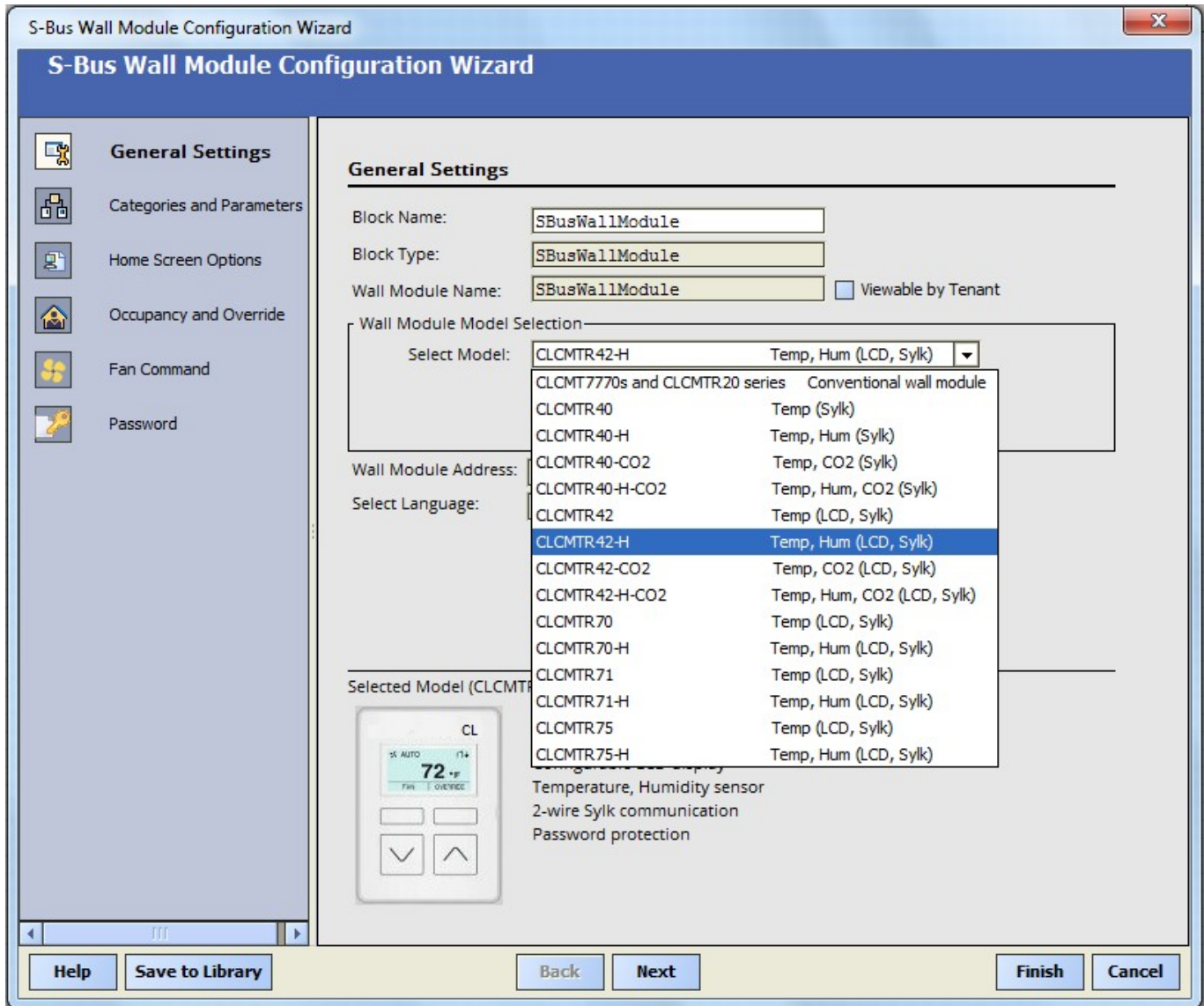


Fig. 1. General Settings tab

Change the name in Block Name if desired, and then choose the CLCMTR40/42 you plan to configure (see Fig. 1).

If you choose a CLCMTR40 type, you will have just the General Settings tab to set up (see Fig. 2).

S-Bus Wall Module Configuration Wizard

General Settings

Block Name:

Block Type:

Wall Module Name:

Wall Module Model Selection

Select Model: Temp, Hum, CO2 (Sylk) ▼

Wall Module Address: ▼

Wiresheet Unit: ▼

Temperature Sensor Offset Value: °F

Humidity Sensor Offset Value: %

Selected Model (CLCMTR40-H-CO2 Temp, Hum, CO2 (Sylk))

CL

Model Capabilities

Temperature, Humidity,
CO2 sensor
2-wire Sylk communication

Help Save to Library Finish Cancel

Fig. 2. General Settings tab

Choose the Wall Module Address. This address must match the bus address on the wall module, which is configured using the dip switches on the back of the device.

Enter the F/C Wiresheet Unit (required on CLCMTR4x models) and any offset to the sensor values if desired.

Click Finish, and you are done with configuration.

In the case of CLCMTR42 models (see Fig. 3), you can also select International to reduce the amount of English in the tenant view if you plan to have many non-English speakers using the device. You can also choose to make Language an editable option for the tenant by checking the box.

Contractor set-up at the wall module remains in English with either selection.

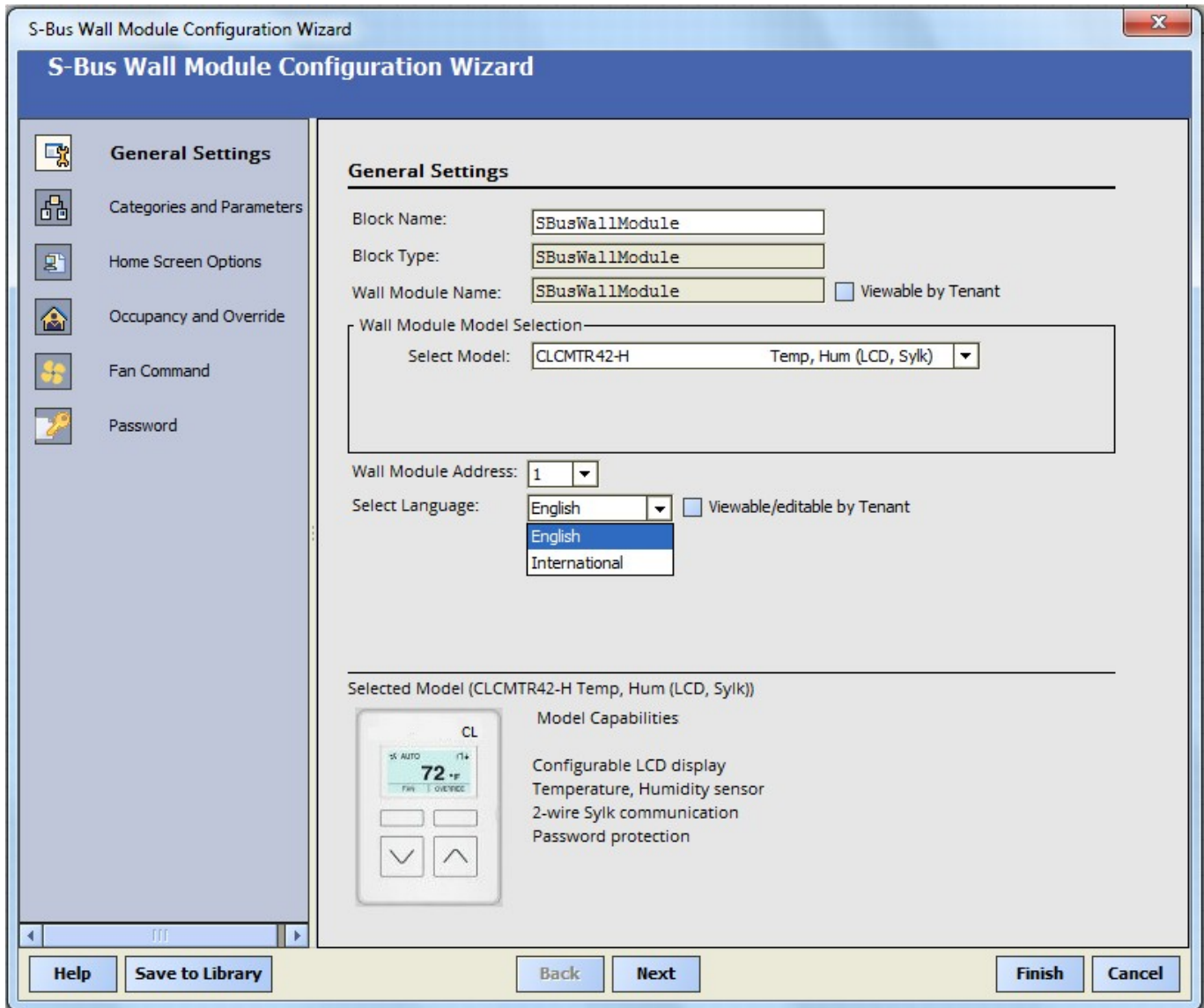


Fig. 3. General Settings tab

Categories and Parameters Tab

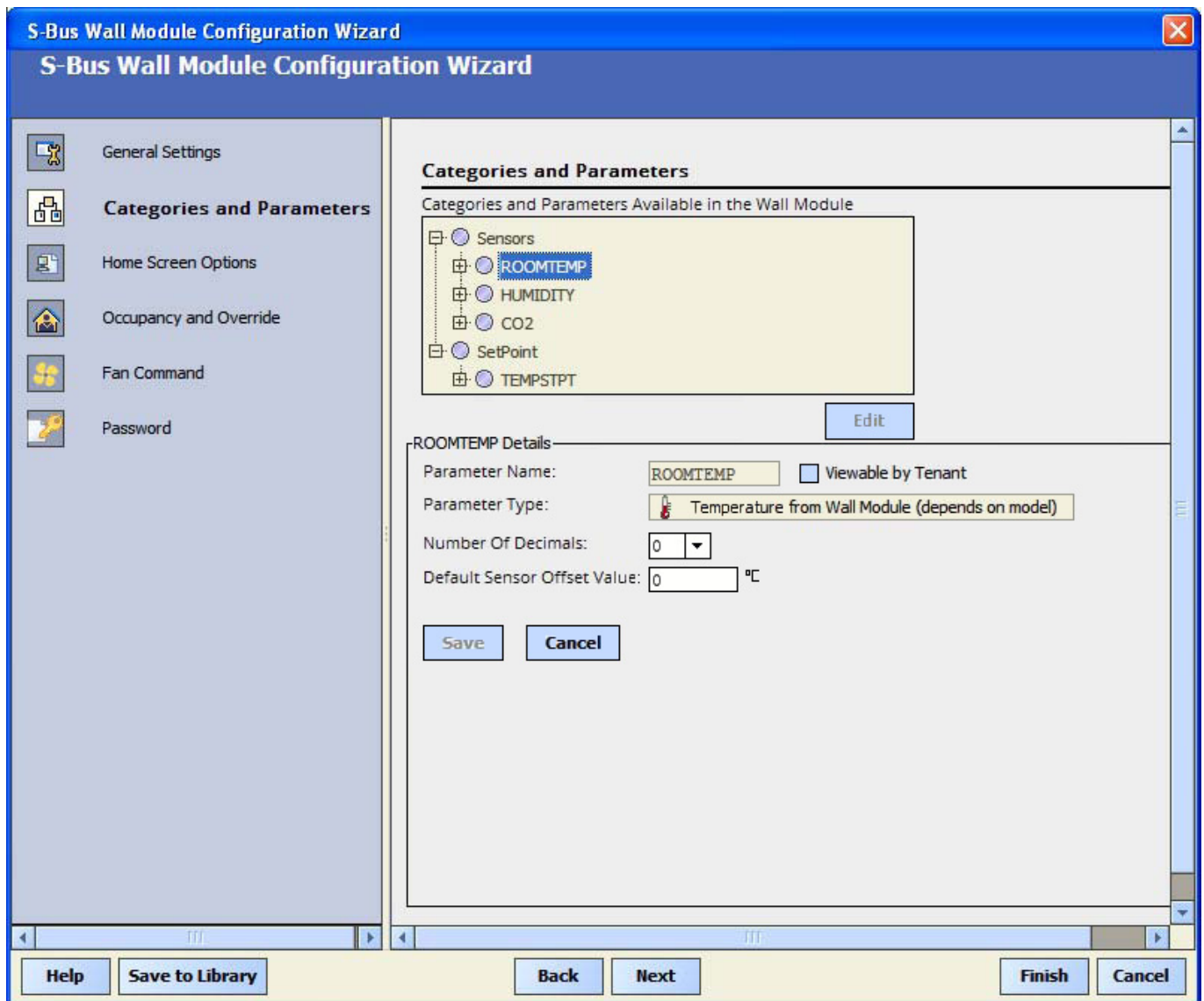


Fig. 4. Categories and Parameters tab

Unlike the Zio, the Zio Lite has just two fixed categories (Sensors and Setpoint), and just a few parameters for the supported sensors and the temperature setpoint. It is not possible to create new categories or parameters.

For ROOMTEMP, select the number of decimals you wish to show and then check the Viewable by Tenant box if you want the tenant to see this value in the MORE screen on the thermostat. Enter a default offset value if desired. Repeat these steps for HUMIDITY.

If you choose not to View any values, then there will be no access to the MORE screen. "MORE" will not show up in the display, and that softkey will be inactive. See "About the MORE screen" further down.

The F/C units shown in the display for measured room temperature will be the units chosen for the Tempstpt (Temperature Setpoint).

About the MORE Screen in Zio Lite

The MORE screen in Zio Lite is accessed by one of the soft keys on the wall module. Normally, the tenant will have access to the room temperature and the setpoint, but if you have a model with humidity or CO2, you can also allow the tenant to view these by pressing the MORE softkey. If both softkeys are being used (Override and Fan are both active), then pressing the up and down arrow keys simultaneously will always access the MORE screen.

View or Hiding values in the MORE screen can be done by checking or not checking the "Viewable by Tenant" check box in the tool.

Values possible for viewing in the MORE screen are: Room Temperature, CO2, Humidity, Temperature Setpoint (editable), Device Name, Language (editable), and degree F/C (editable).

If you choose not to View any of these values, then there will be no access to MORE. "MORE" will not show up in the display, and that softkey will be inactive.

Next, click Tempstpt (see Fig. 5).

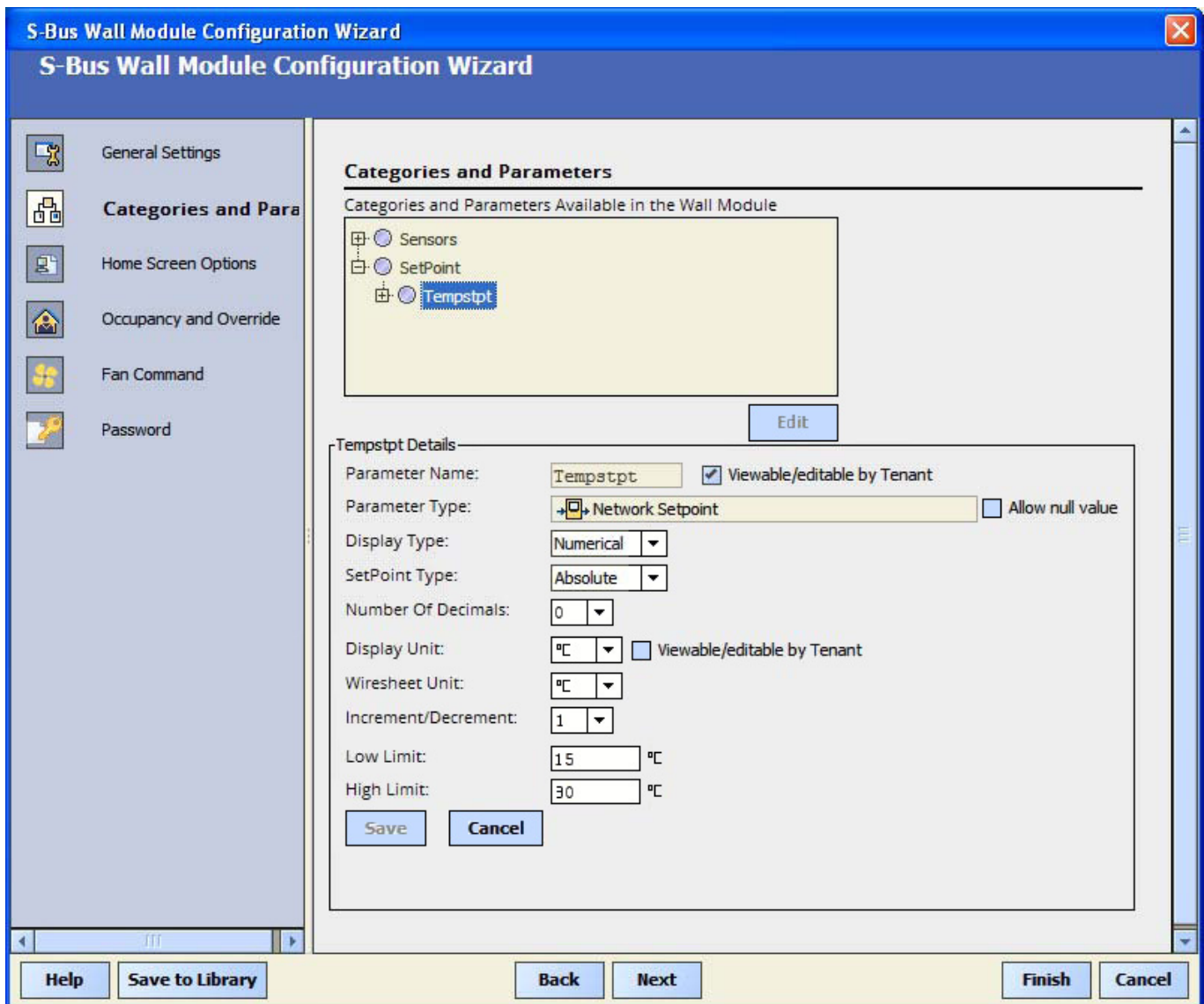
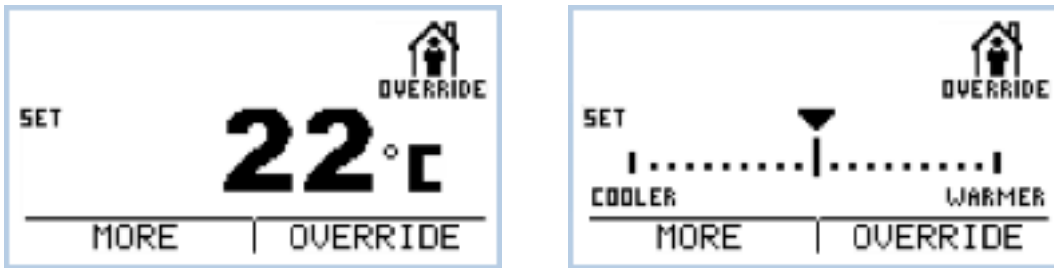


Fig. 5. Categories and Parameters tab

The temperature setpoint can be displayed numerically or graphically on the Zio Lite, as shown.



If Numerical is chosen, a number will be shown in the display. This could be either an absolute value, say 20, 22, etc., or a relative offset value, say +/-5.

If Graphical is chosen, a graduated line graph will appear on the display with COOLER to the left and WARMER to the right. Pressing up or down will cause the cursor to move left and right. The graph will be set up so that it is scaled linearly to the low and high limits you enter, with the low limit value being the far left position, and the high limit value being the far right position. It will do this whether you set up your limits for an offset or a center setpoint value. The graph is divided into exactly 20 segments. These segments do not correspond to a fixed temperature amount, since the graph can be scaled differently. The output will be in either 1.0 or 0.5 degree increments, even in the offset mode, depending on what you choose in this tab.

The setpoint in a controller can be set for either an offset setpoint (when the value is below 10) or a center setpoint (when the value is above 10). Set your low limit and your high limit in this tab so that your output will be an offset (say -5 to +5) or a center setpoint (say 55-85F, or 15-25C), as desired. Do not exceed high and low limits of +/-9 for an offset value.

NOTE: It is not possible to change between relative "offset" setpoint and center setpoint from the wall module. This change must be made at the tool and downloaded. You can still choose between graphical or numerical setpoint at the wall module.

You can show the offset setpoint either graphically or numerically, and you can show the center setpoint either graphically or numerically. It is most common to set either a numerical center setpoint or a graphical offset setpoint, but the other two choices will function as well.

Choose the Display Unit. This unit applies to **both** the setpoint and the room temperature at the wall module display.

Choose the Wiresheet Unit. This is the unit you are using in the wiresheet logic. This is a new requirement for the CLCMTR40/42 family, and is not required for the CLCMTR7x family.

Home Screen Options

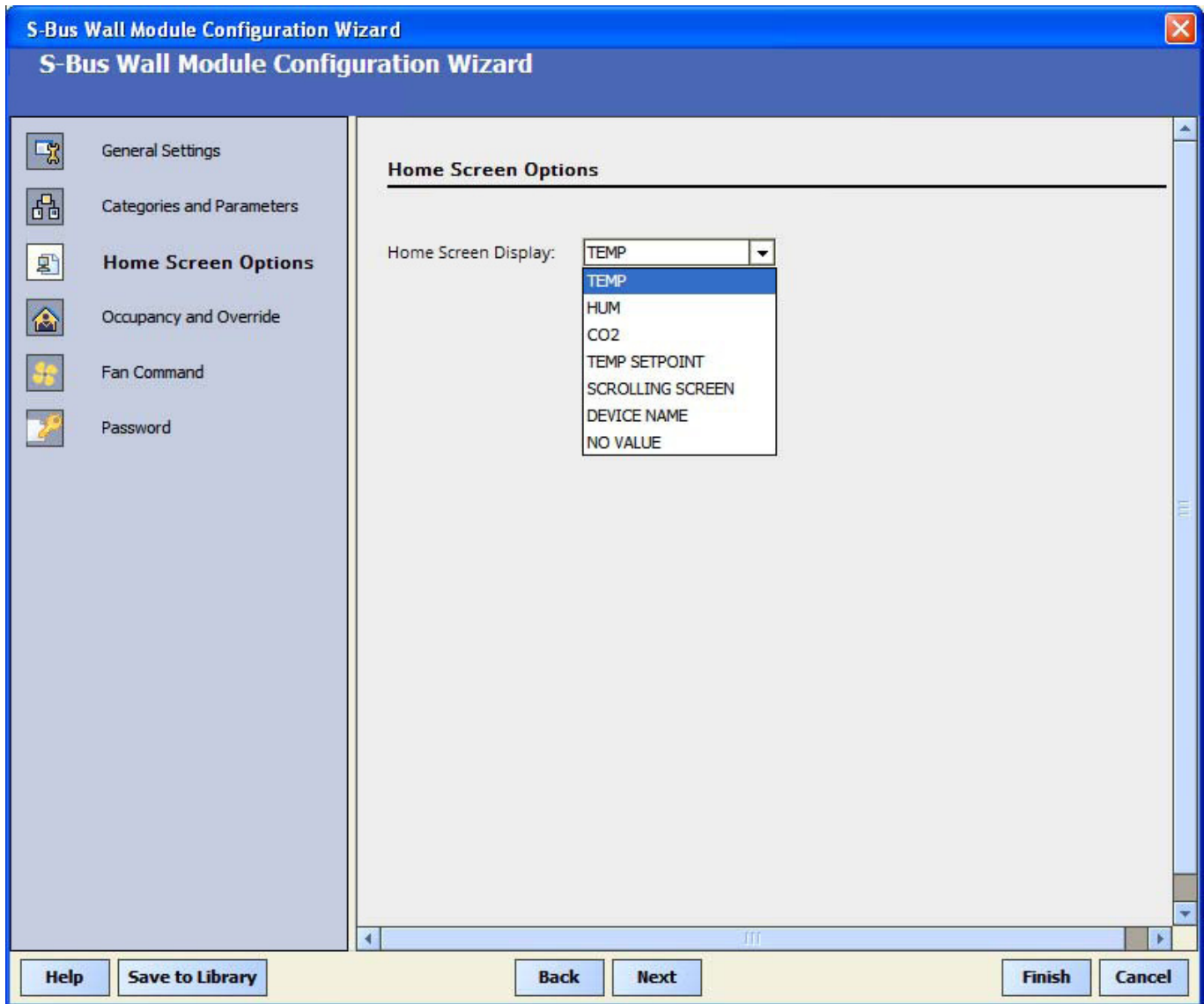


Fig. 6. Home Screen Options tab

Only one value can show up in the home screen at a time. You have a number of choices. Temp or Temp Setpoint are probably the most common choices, but you can also choose other values listed. If you choose not to check the View by Tenant box for any of these items, they will still show up on your home screen if you choose one of them in this Home Screen Options tab, including the scrolling function. You just won't have them showing up in the MORE screen.

If you choose Device Name, the Block Name you chose in the General Settings tab will show up in the Home Screen, handy if you don't want tenants to view anything at all on the home screen, and also provides a way to identify which wall module is attached to which piece of equipment (VAV1, RTU2, etc).

If Scrolling Screen is chosen, the Zio Lite will continuously scroll through all of the following values if they are marked as Viewable/Editable by Tenant: Temp, Temp setpoint, Humidity, CO2, and Device name.

Occupancy and Override Tab

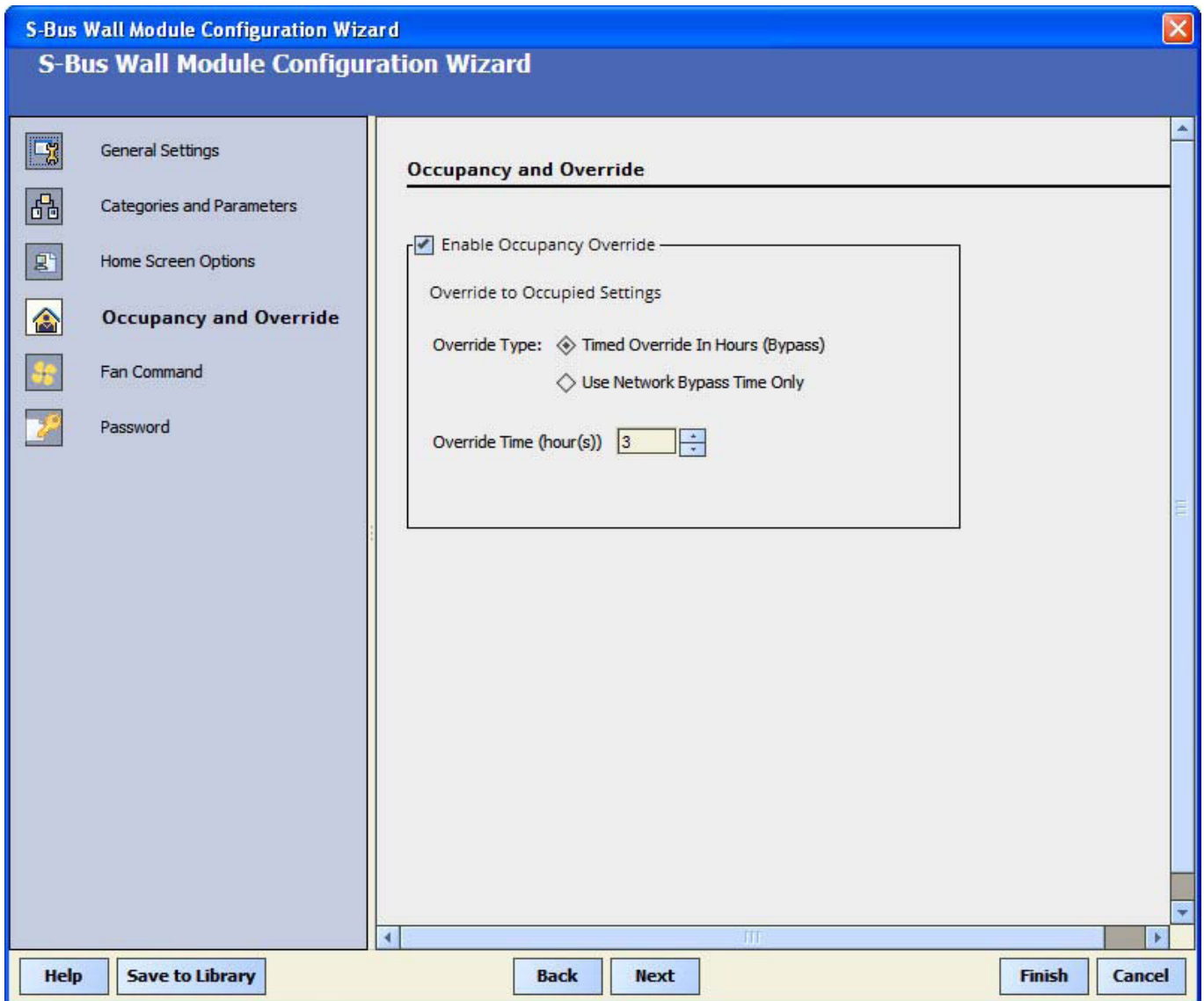


Fig. 7. Occupancy and Override tab

Selecting "Enable Occupancy Override" will allow the user to override to a bypass time into the occupied mode. You can choose to "Use Network Bypass Time Only", or use a timed override which is selectable in the drop down menu. There is no option to override into unoccupied mode on the CLCMTR42. The CLCMTR42 will always show the effective occupancy on the display. Override time will only be supported from 1,2,3,4,5,6,7,8,12,16,20,24 time intervals.

Fan Command Tab

Click this tab if fan access is needed. Choose the fan type and default state of the fan. This set up is identical to the CLCMTR7x.

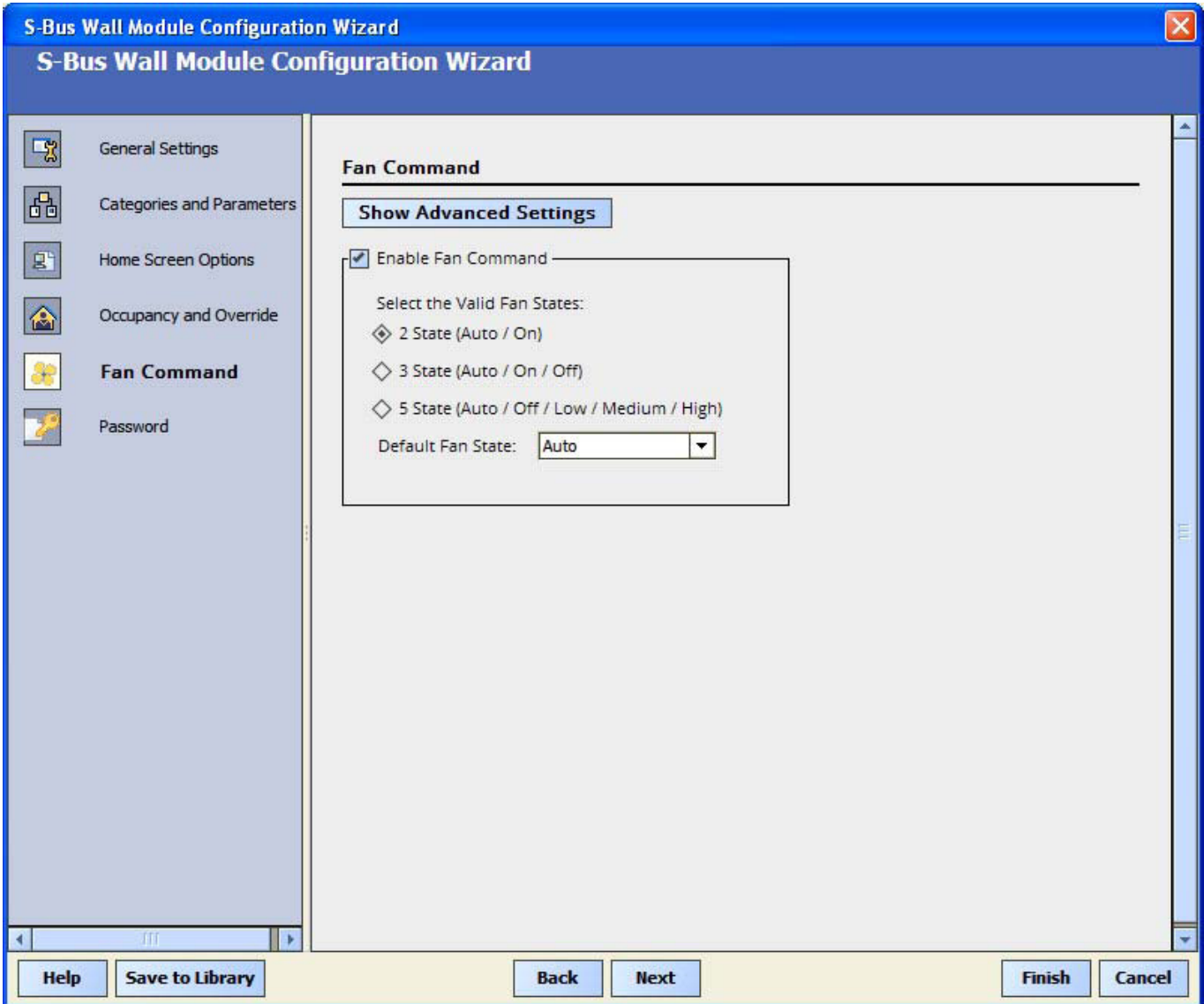


Fig. 8. Fan Command tab

Password Tab

If a password to the installer menu is desired, check the Password tab and choose a four-digit password.

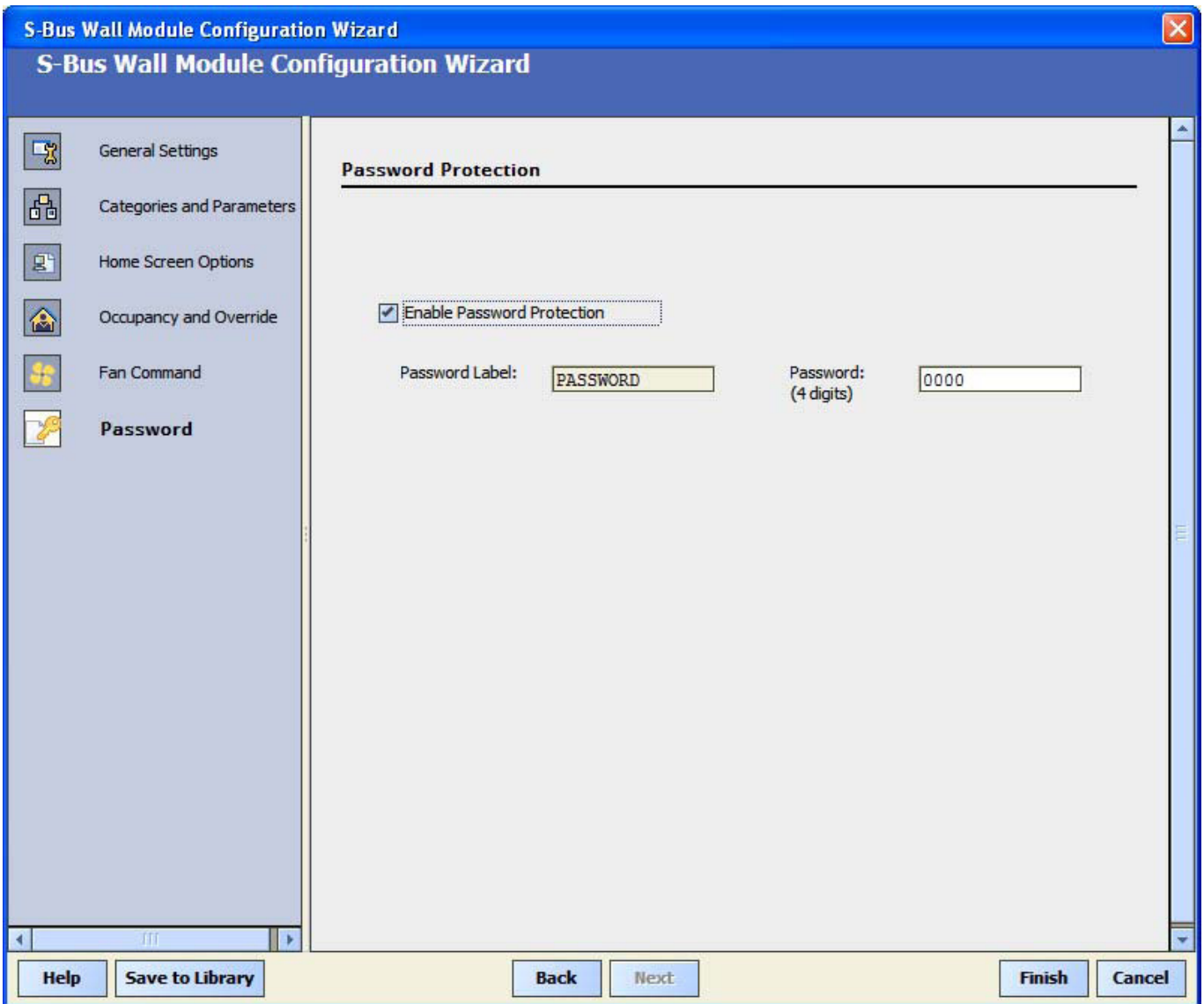


Fig. 9. Password tab

If no password is needed, skip this tab.

NOTE: There is no backdoor to accessing this password, so write it down and keep in a safe place, especially in stand-alone applications. The password can only be accessed via this configuration tool.

Click Finish and you are done. As with the Zio, you can save your wall module configuration to a library.

NETWORK ACCESS TO ZIO LITE FIELDS

Listed below are the fields that will be available as NCIs on LYNX. You can readily access these in the points folder for use in px pages, etc. All of these settings are also configurable directly in the wall module in the contractor setup menu, accessed by pressing both upper keys for five seconds.

Table 1. Available NCI fields

Field Name**	LON NCI Field Name*	BACnet Object Name*	Purpose
Temperature Engineering Units	nciSlk<X>config/ tempEngUnit	AVSlk<X>_config_tempEngUnit	remote configuration
Temperature Low Limit	nciSlk<X>config/ tempStptLoLmt	AVSlk<X>_config_tempStptLoLmt	remote configuration
Temperature High Limit	nciSlk<X>config/ tempStptHiLmt	AVSlk<X>_config_tempStptHiLmt	remote configuration
Temp Setpoint Type (Numerical/Graphical)	nciSlk<X>config/ tempSetptType	AVSlk<X>_config_tempSetptType	remote configuration
Language (English/International)	nciSlk<X>config/ language	AVSlk<X>_config_language	remote configuration
Password	nciSlk<X>config/ password	AVSlk<X>_config_password	remote configuration
Occupancy Override (Disabled /1/2/3/4/5 hours etc. / Network Bypass Time)	nciSlk<X>config/ occOvrddSettings	AVSlk<X>_config_occOvrddSettings	remote configuration
Home Screen	nciSlk<X>config/ homeScreen	AVSlk<X>_config_homeScreen	remote configuration
Temperature Offset	nciSlk<X>calOffsets/ temp	AVSlk<X>_calOffsets_temp	sensor calibration
Humidity Offset	nciSlk<X>calOffsets/ humidity	AVSlk<X>_calOffsets_humidity	sensor calibration

*<X> = Syk Device Address

** **NOTE:** If an invalid network value is sent to any of these fields, unintended behavior may result. Be sure you are sending valid network values. See Table 2 on page 14 for information on ordinal values.

For each field, an entry will be present in the send table of LYNX to send that value to CLCMTR4x whenever LYNX receives a new value over LONWORKS/Bacnet network.

The following values will be sent from CLCMTR4x to LYNX for use in LYNX Logic and for calibration. You can also calibrate sensors directly at the wall module.

Table 2. Available NCI fields

Field Name**	LON NCI Field Name*	BACnet Object Name*	Purpose
Temperature	nvoSlk<X>sensors/temp	AIslk<X>_sensors_temp	sensor calibration
Humidity	nvoSlk<X>sensors/temp/humidity	AIslk<X>_sensors_humidity	sensor calibration

*<X> = Syk Device Address

SYLK CAPACITY

How many Sylk Wall Modules are supported?

Sylk Device Capacity is determined by Sylk memory (Proxy), Sylk power consumption and Sylk bandwidth. All of these are now dynamically determined in the LYNX Resource Usage view in the workbench, example shown in Fig. 10.

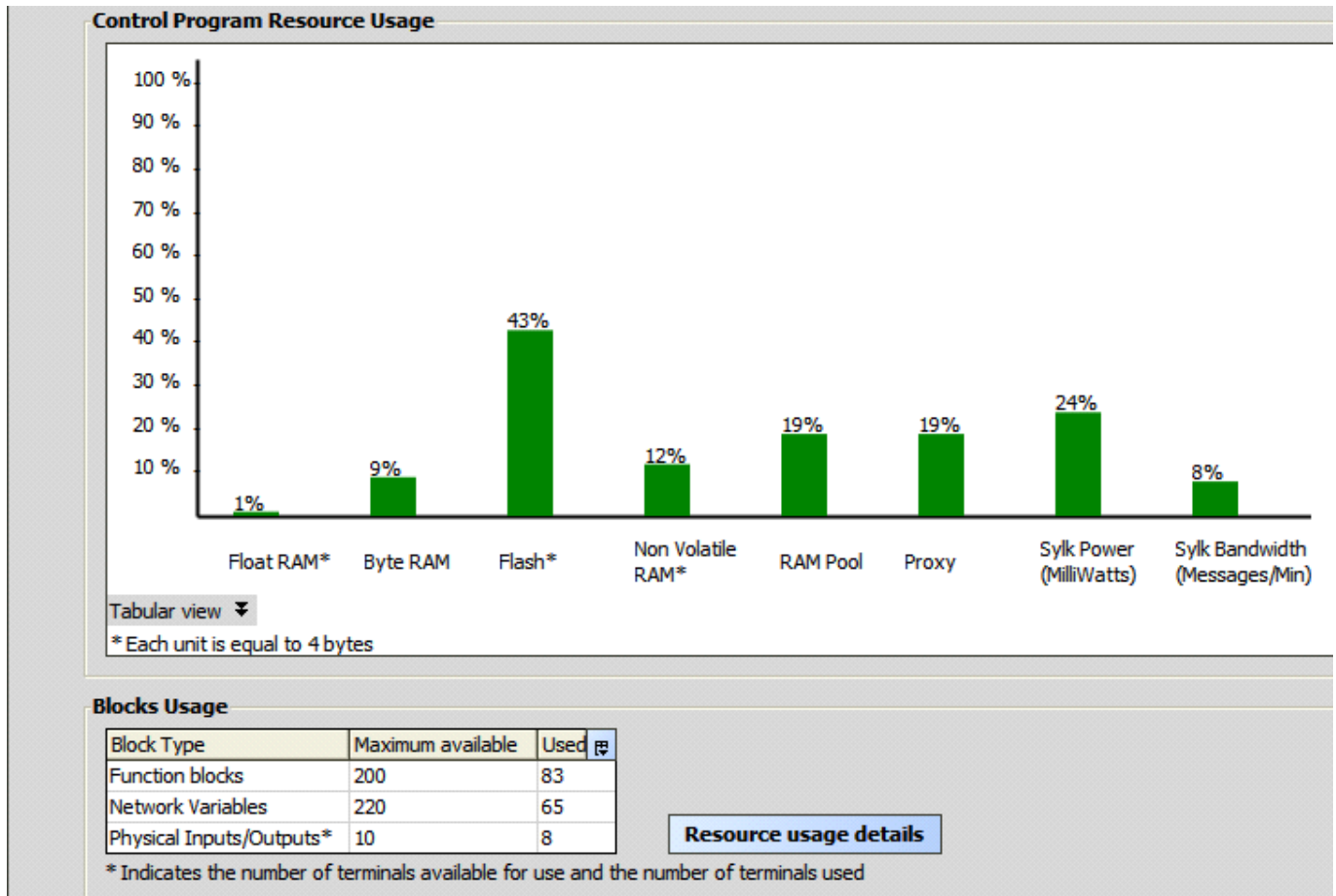


Fig. 10. Control Program Resource Usage view

The Bandwidth for Sylk devices can change depending on the number of messages being sent per minute (so it is highly dependent on the number of parameters set up for CLCMTR71 and CLCMTR75). Once all links to slots on the device block are made, go to the Resource Usage view and check to make sure you are less than the 100% on Proxy, Power, and Bandwidth.

OPERATION

CLCMTR42 Wall Module Keypad Contractor Configuration

The CLCMTR42 allows many of the same configurations in the tool to be made at the device as well. Configuration changes made at the device are automatically uploaded to the LYNX and preserved. Remember to upload the LYNX application to the tool before making changes in the tool if you want to preserve configuration changes made at the wall module.

From the HOME Screen, enter the Configuration menu by pressing the two upper softkeys simultaneously for 5 seconds. Then enter the password if one has been set up.

The wall module allows the installing contractor to configure the following items:

Table 3. Configurable items

S. no.	INSTALLER SET-UP FIELD	RANGE
1	SYLK ADDRESS	1-15, VIEW ONLY, CONFIGURED WITH DIP SWITCHES ON DEVICE
2	DEVICE NAME	VIEW ONLY, DETERMINED IN TOOL
3	TEMP UNITS	0 - DEG F 1 - DEG C
4	OVERRIDE SETTINGS	0 - DISABLE 1 - NETWORK BYPASS 2 - ONE HOUR 3 - TWO HOUR 4 - THREE HOUR 5 - FOUR HOUR 6 - FIVE HOUR 7 - SIX HOUR 8 - SEVEN HOUR 9 - EIGHT HOUR 13 - TWELVE HOUR 17 - SIXTEEN HOUR 21 - TWENTY HOUR 25 - TWENTY FOUR HOUR
5	SETPOINT LO LIMIT	10 TO 150 FOR ABSOLUTE, -9 TO 9 FOR OFFSET
6	SETPOINT HI LIMIT	10 TO 150 FOR ABSOLUTE, -9 TO 9 FOR OFFSET
7	SETPOINT TYPE	0 - NUMERICAL 1 - GRAPHICAL
8	TEMP OFFSET	-9 to 9 (tool determines 1 or 0.5 increments)
9	HUM OFFSET	-9 to 9 (tool determines 1 or 0.5 increments)
10	LANGUAGE SETTING	0 - ENGLISH 1 - INTERNATIONAL
11	HOME SCREEN	0 - TEMPERATURE 1 - HUMIDITY 2 - CO2 3 - TEMP SETPOINT 4 - SCROLLING SCREEN 5 - DEVICE NAME 6 - BLANK SCREEN
12	TEMPERATURE	CURRENT ROOM TEMPERATURE
13	HUMIDITY	CURRENT ROOM HUMIDITY (%), IF SUPPORTED
14	CO2	CURRENT ROOM CO2 (ppm), IF SUPPORTED
15	TEMP SETPOINT	CURRENT TEMP SETPOINT

Table 3. Configurable items (Continued)

S. no.	INSTALLER SET-UP FIELD	RANGE
16	VIEW DEVICE NAME	VIEW or HIDE –DETERMINES IF VIEWABLE IN THE MORE MENU, AND SCROLLING SCREEN (IF CHOSEN). ANY ITEM CHOSEN AS HIDE WILL STILL SHOW UP IF IT IS CHOSEN AS THE HOME SCREEN VALUE.
17	VIEW TEMP UNITS	
18	VIEW LANGUAGE	
19	VIEW ROOMTEMP	
20	VIEW HUMIDITY	
21	VIEW CO2	
22	VIEW TEMP SETPOINT	
23	FIRMWARE REV	

Simply scroll through each selection with the up/down keys, click EDIT to make the changes desired. Click DONE to accept changes to each configuration, and click HOME to exit the configuration menu.

When the wall module is initially powered up by connection to Sylk, the default configuration upon power-up is determined by the tool and downloaded to the Zio Lite from the LYNX.

Tenant Operation of Zio Lite CLCMTR42

While at the Main Screen, pressing up or down will allow the user to adjust the occupied temperature setpoint. If the system is in unoccupied, user must press OVERRIDE to switch to OCCUPIED.

Pressing the OVERRIDE button (if it is enabled) will allow the occupant to override into the occupied mode for a comfortable temperature. The duration of this override is determined by the installer. After pressing override, press the up and down buttons to adjust the override setting if needed.

Pressing the FAN button (if it is enabled) will allow the occupant to adjust the fan speed. After pressing the fan button, press the up and down buttons to adjust the fan setting.

Pressing the MORE button (if enabled) and then pressing the up/down keys will provide the occupant with additional information, including (if enabled) the ability to switch the units between °F and °C. If both the Fan and the Override softkeys are enabled, then the MORE menu can be accessed by pressing the up and down arrow keys simultaneously. If either Fan or Override keys are not enabled, one of these softkeys will appear as the MORE softkey.

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