
Honeywell

PlantScape Controller Implementation

Lesson 3

Operating Sequential Control Strategies

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Notes

Introduction

The purpose of this Lesson is to give you the knowledge to be able to operate your newly created SCM in Control Builder and Station. Upon completion of this Lesson you will have operated the SCM#_TEMP.

Objectives

- ❶ Control the SCM#_TEMP in Control Builder
- ❷ Control the SCM#_TEMP in Station
- ❸ Reset the SCM#_TEMP



➤ Operate Your SCM

- Select SCM from the **Monitoring** tab. Right click, then select configure parameters.
- Click on the **Status** tab
- Notice the state is idle
- Click on the command pull down menu and select start
- Close the config parameters dialogue box
- Double click on the **SCM#_TEMP** in the **Monitoring** tab
- Notice the colors in the SCM
 - **Blue** Completed Step or Transition
 - **Green** Active Step or Transition
- Status should go to complete after the SCM is finished
- To run again, issue Reset (Status to idle) then issue the start command

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➤ Opening an SCM Detail Display from Station

- If the PlantScape Station is not already running, confirm that all the PlantScape Server Services are running and start Station

- Type the name of your SCM, **SCM#_TEMP**.

 **Do not press Enter**

- Click the magnifying glass icon



- Operate your SCM
- You can also operate **SCM#_TEMP** from **Group #2**



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SCM Detail Display

Operating from Control Builder is very useful, especially for troubleshooting and debugging, but for day-to-day operations you will probably prefer to use PlantScape's Station software. Page two of the SCM Detail Display shows a very useful State/Command diagram. It is designed to guide you through the operation of the SCM.

The Chart page of the Detail is a window into the Monitoring Tab of the SCM. It is setup to track the active Step and Transition. The tracking feature can be turned of if required. This page is very handy for status checking and basic troubleshooting.



For more information on how to operate from Station refer to the *Operator's Guide, Getting Started*.



➤SCM states

- In addition to the use of color, Control Builder uses State conditions to indicate the flow in a Sequential Control Module

IDLE	SCM is ready to begin execution of its main logic.
INACTIVE	SCM Block EXECSTATE is INACTIVE; block configuration parameters are being edited. This is the first step after IDLE.
VALIDATED	SCM Block EXECSTATE is Active.
RUNNING	SCM is executing its Main or Interrupt Handlers.
ABORTED	SCM has just executed its Abort Handler.
HELD	SCM is not executing Main or Interrupt Handlers but is waiting for a Stop or Abort.
STOPPED	SCM is not executing Main, Interrupt, Hold, or Stop Handlers and it is waiting for an Abort, Hold, or Restart command.
COMPLETE	SCM is finished.
INTERRUPTING	SCM is executing its Interrupting Handler.

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Connecting and disconnecting SCMs



For a full description of all the SCM States and how an SCM transitions from one to another, see *Control Builder Components Theory, Sequential Control*.

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This completes....

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