

## Example of a Walk In Room Control Upgrade



Software User Guide

# iTools - Configuration and Monitoring Software

- A complete engineering studio for **Configuration; Data logging; Communications; Monitoring software**

## View Builder

View builder allows creation of customized screens to provide a simple visualization of your process.

## Data logging and trending

Access to real time monitoring

## Setpoint program editor - simple setup of setpoint profiles

A number of screens have been configured as detailed in the next few pages but all are configurable by the end user to make the system more user friendly.

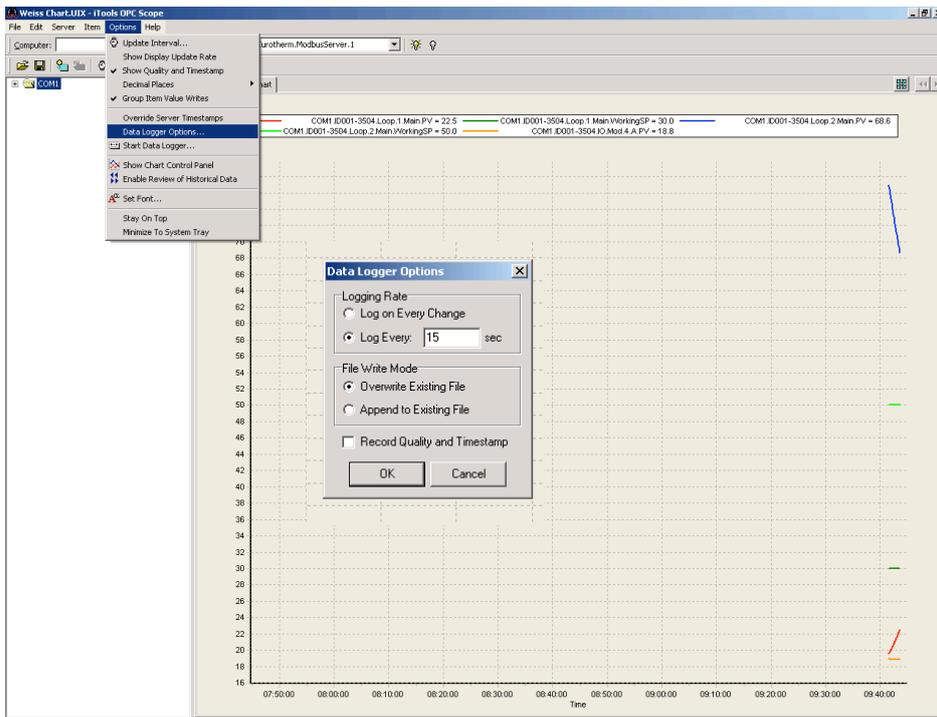
Double click on shortcut to Open the Overview Page  
This page enables single set-point of the

Set Points for Temperature and Humidity can be edited

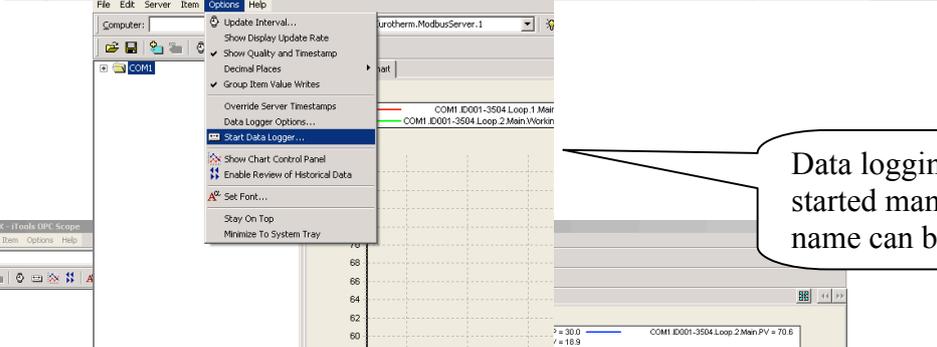
Digital Event Outputs can be edited here as needed

Click to Open a Trending Chart

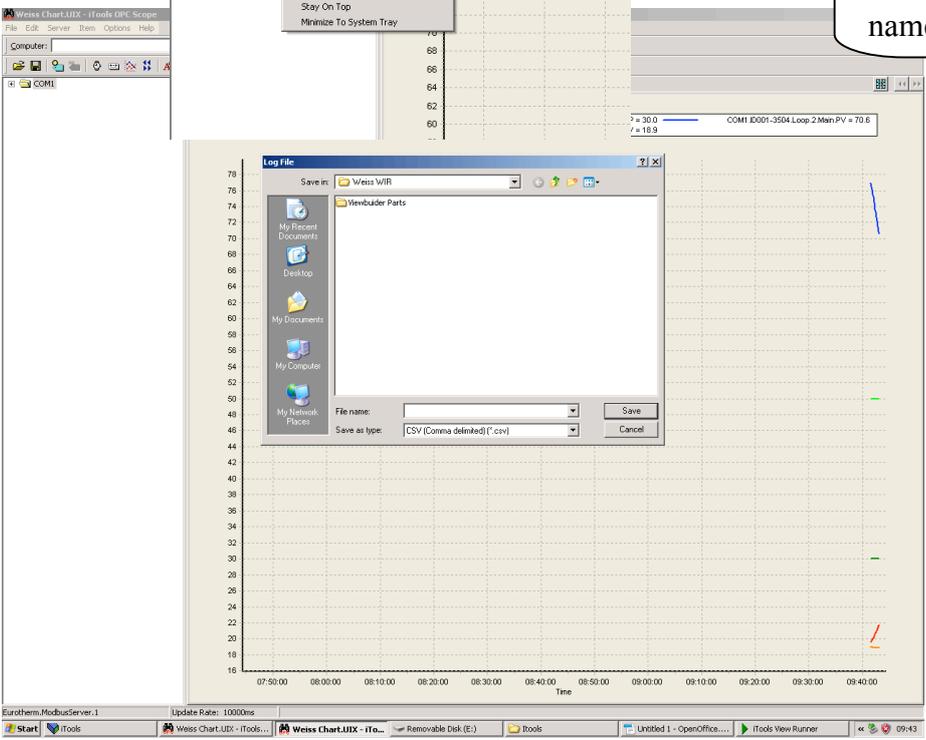
Use this menu to set-up the Data logger

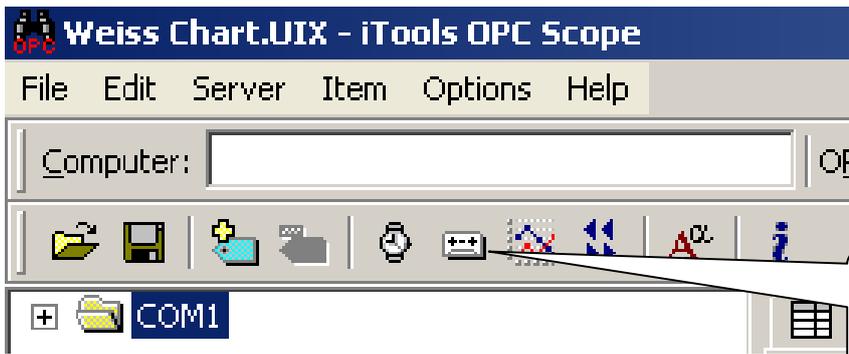


Eurotherm.ModbusServer.1 Update Rate: 1000ms

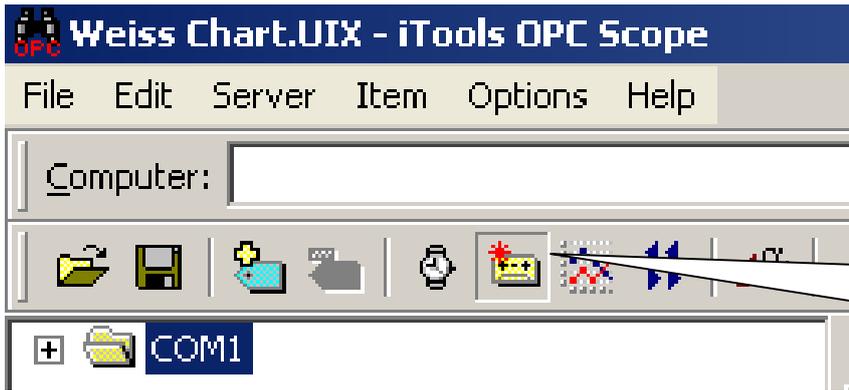


Data logging can then be started manually and a file name can be chosen



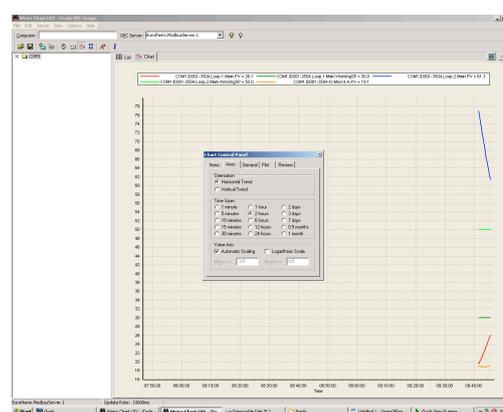
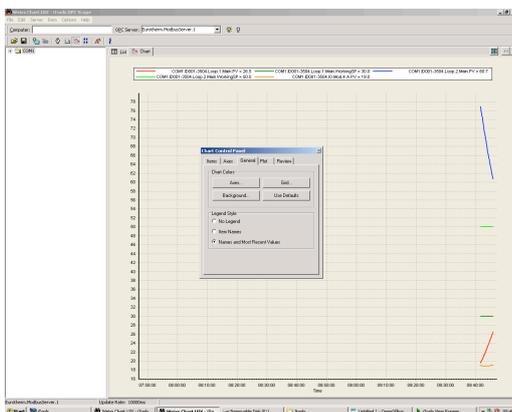
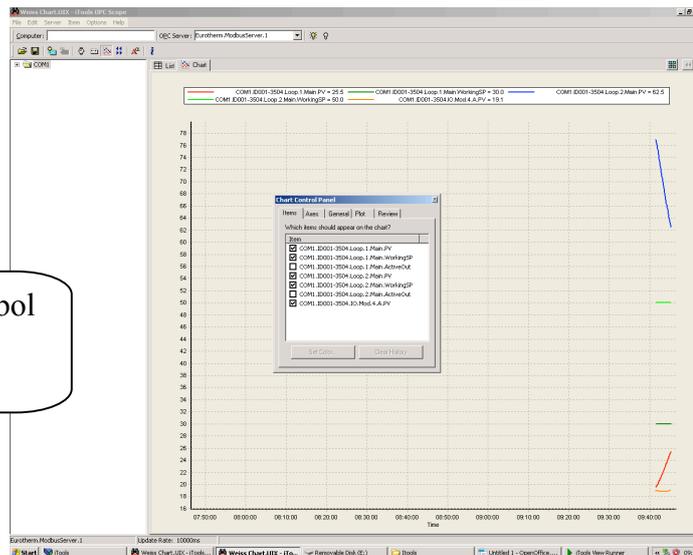


Data logging can be started manually by pressing this button. (Shown not logging)

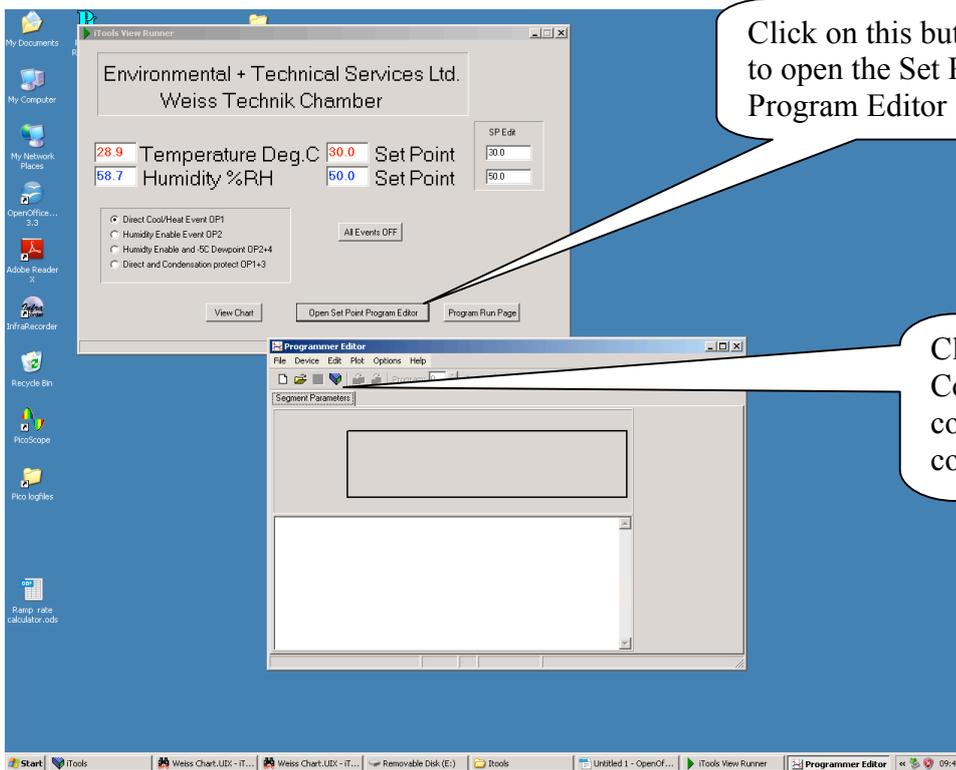


Data logging can be started manually by pressing this button. (Shown logging active)

Click on this symbol to set-up the chart parameters.

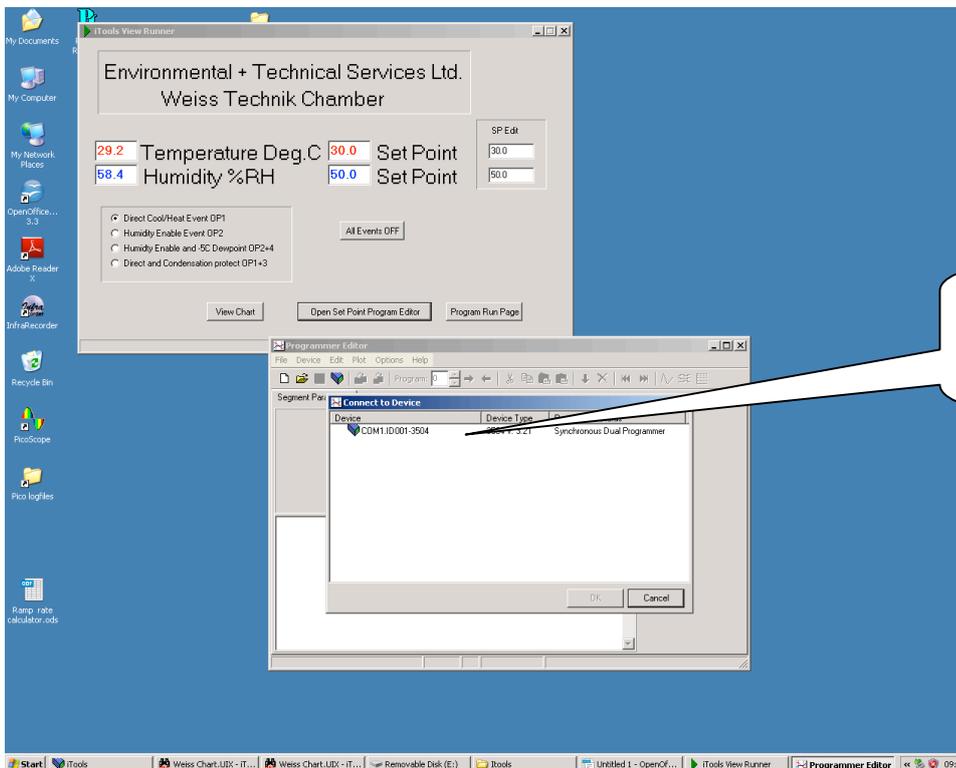


# Set Point Programming Editor

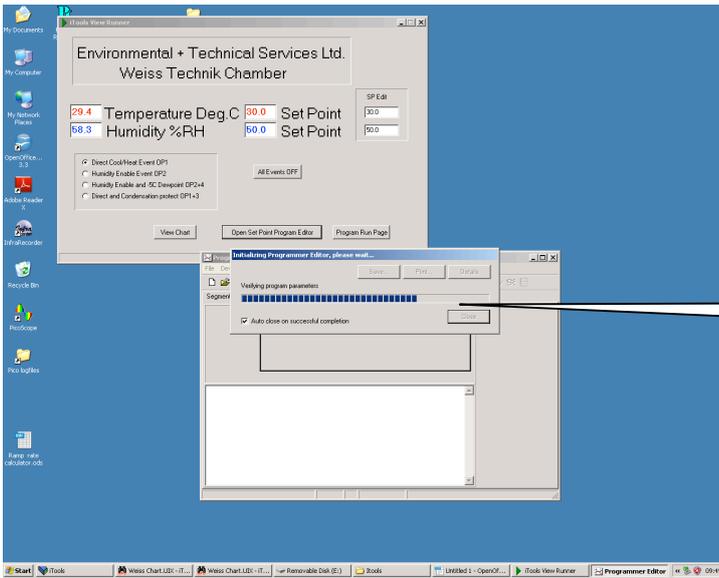


Click on this button to open the Set Point Program Editor

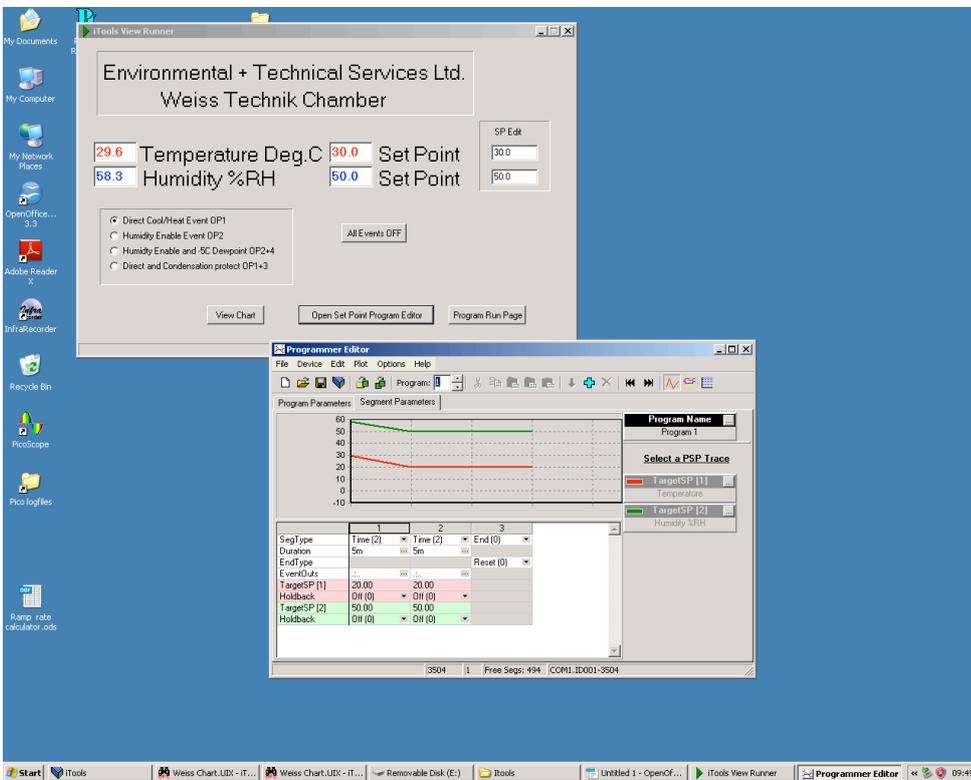
Click on the Controller image to connect to the controller

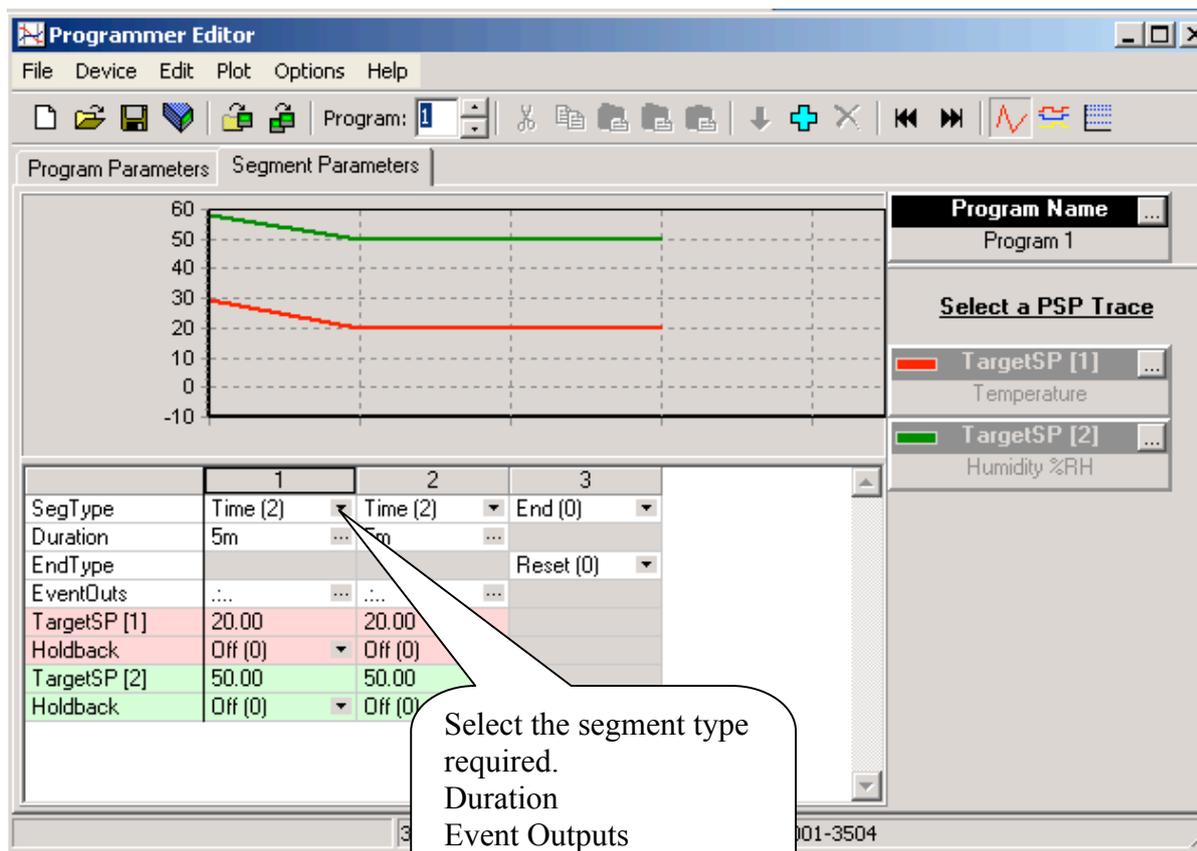


Click on the controller and click OK



Values are loaded





## Segment Type

A program consists of a number of segments. This setting defines the individual segment behaviour.

## Value Options

### 0: End Segment

An end segment terminates a program. In an end segment, the programmer can be configured to reset to local setpoint or to continuously dwell at the last programmer setpoint.

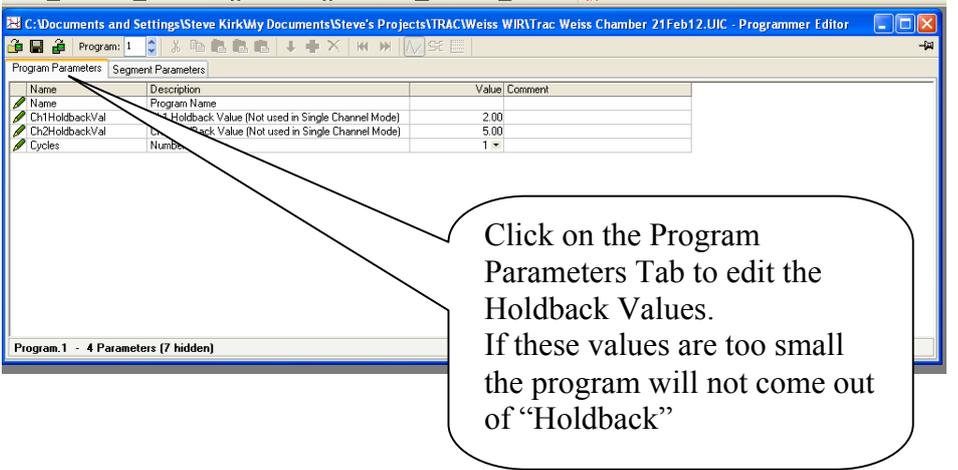
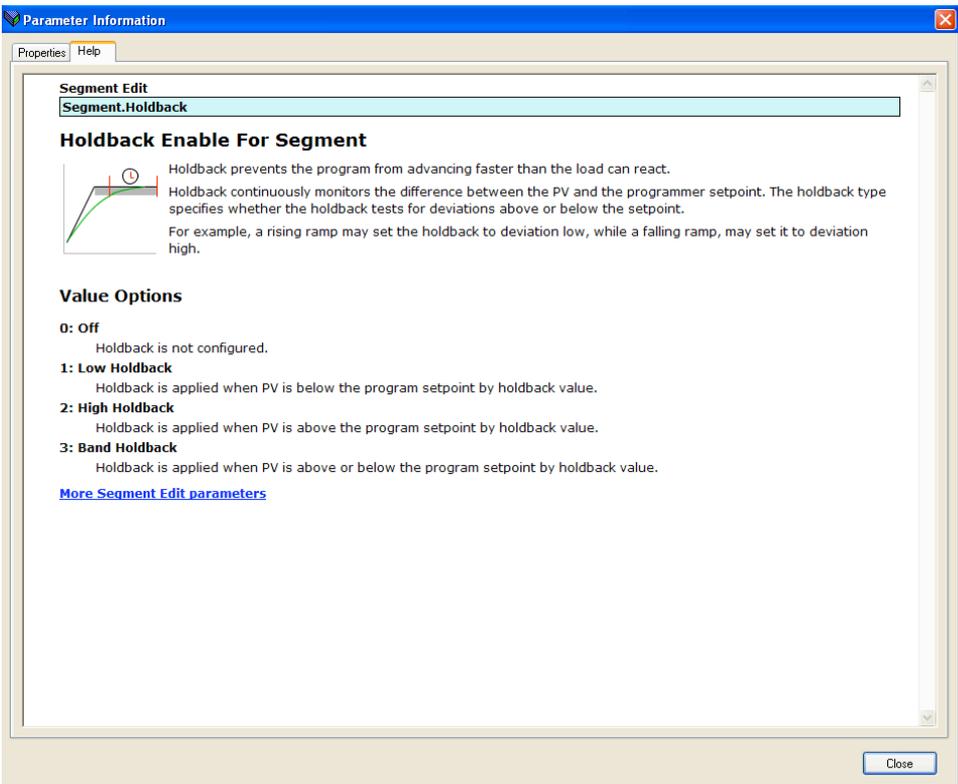
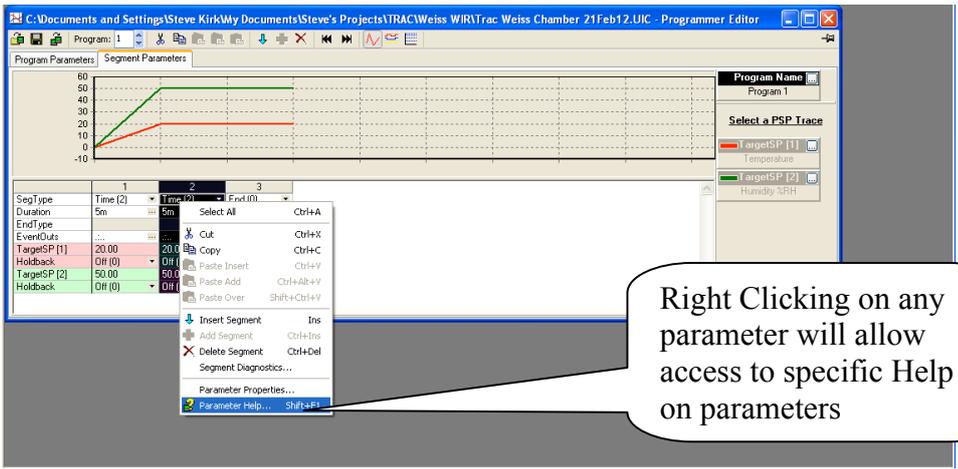
### 2: Time to Target Segment

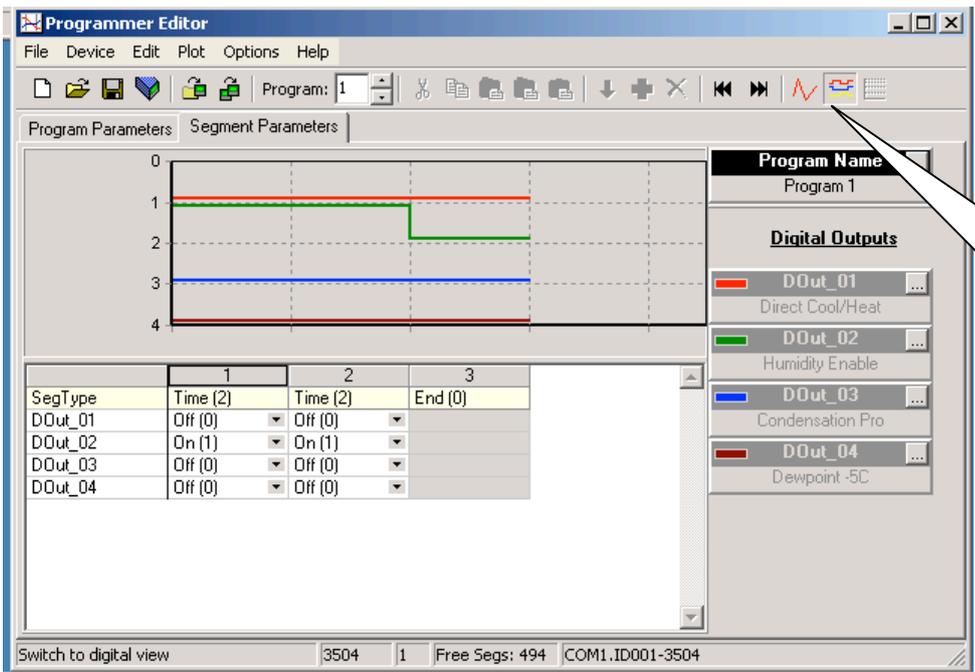
A time to target segment specifies the duration of the segment and the final setpoint for the segment. The Instrument then calculates the ramp rate to move the setpoint to the target in the specified time.

Time to target profiles are easier to setup than ramp rates, however, since the first segment has an unknown starting point, it is not possible to predict the rate of change of setpoint for the first segment.

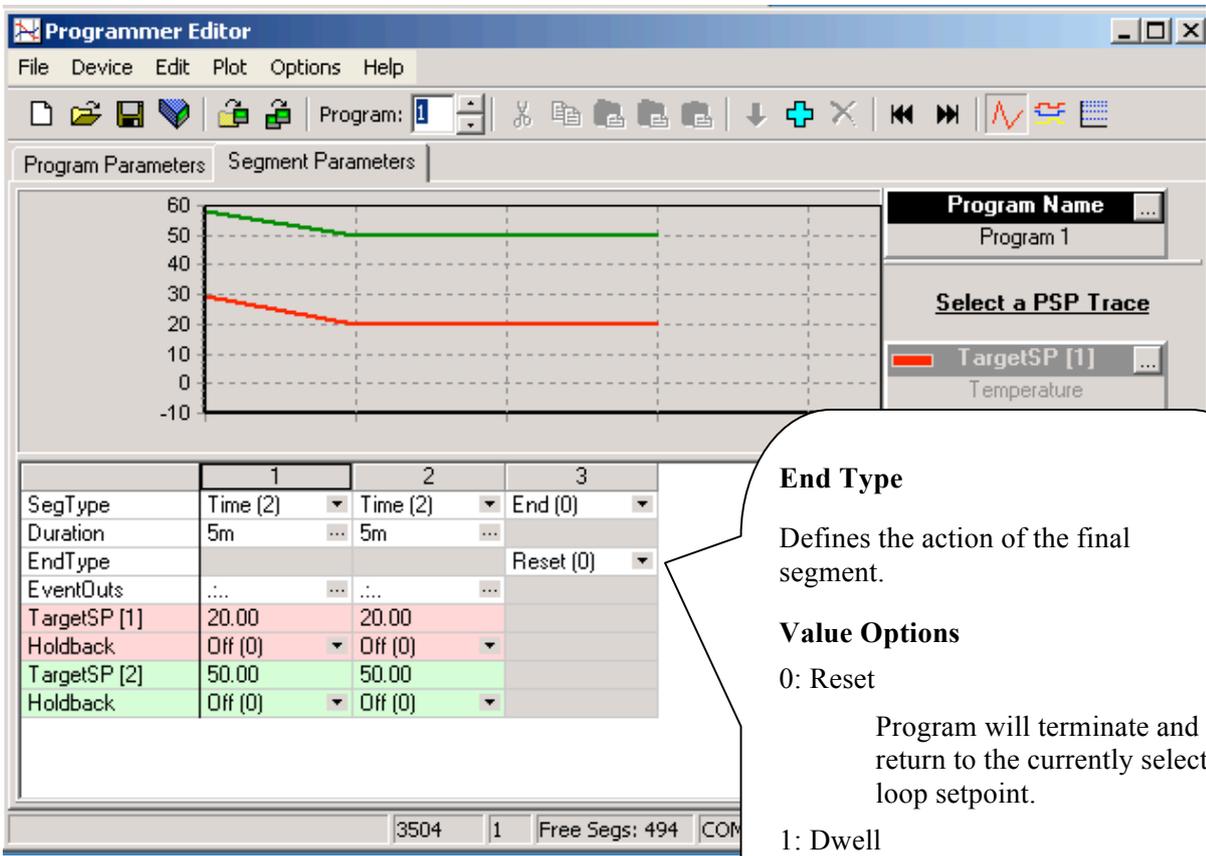
### 5: Wait Segment Specify Conditional Transition to Next Segment

Wait criteria include waiting on programmer digital inputs (PrgIn1 and PrgIn2), PVWaitIP which specifies wait criteria for an auxiliary PV, or the end of a segment of the other channel (Dual Programmiers only).





A more detailed view of the Digital Outputs can be seen by switching to the Digital view.



**End Type**

Defines the action of the final segment.

**Value Options**

0: Reset

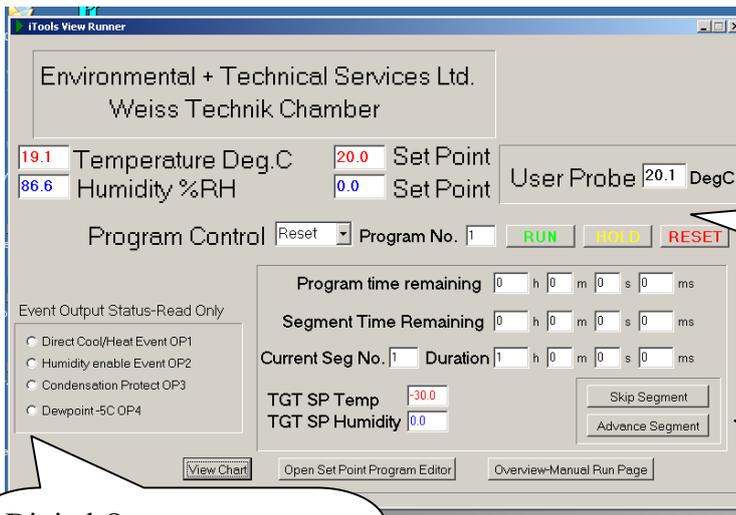
Program will terminate and return to the currently selected loop setpoint.

1: Dwell

Program will terminate at the last segment setpoint.

2: SafeOP

Program will terminate and the loop is forced into the inhibit mode. Safe output power is then applied.

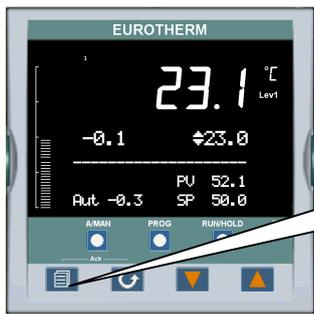


A program can be Run, Held, or Reset by selecting an option from this drop down menu or the buttons. The program number can be edited here.

While running a program can manipulated using the Skip Segment or Advance Segement buttons. Sement detail is displayed nearby.

Digital Outputs are controlled by the Program and can switch on a per segment basis and are Read Only on this screen.

### Controller User Screens



Use the Page Key (Bottom Left) to scroll between screens.

The Home display shows the current Temperature, Setpoint, and output on the top portion of the display. Below the dotted line shows the current Humidity in %RH, the Setpoint and the current control output.



The Outputs can be switched on and off with the Up-Down Buttons and Enter to move on to the next Output



More information on standard screens can be obtained from the Eurotherm Manual. Eurotherm3500\_HA027987\_9.pdf or download from <http://www.eurotherm.com/downloads/>