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System/Product	Atlas
Model/Module	All
Subject Type	PC Software
Subject Version	1.2
Author	SV
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Technical Note -

1 How to modify PIDs in recipe steps

1) Double click the temperature control step to open up the step properties box



OK

Cancel

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3) In apparatus view, double click on the circulator to open the device properties window

Device Properties		×
Device Name: Circulator		
Model: Huber: Minista	CC 230	
Serial Communications Serial Port Port 1		
Sensors Effectors	Effector Name: Target Temp Unit: Celsius Limits Threshold High Limit 100 Enable High Lin Low Limit 0 Enable Low Lin Safe Value: 20 Set sale on shutdown OK Ca	

Make sure the High and low limits are disabled (uncheck the boxes shown by the red arrows) or set to a value better suited to the oil you are using (e.g. DW Therm = -90° C to 200° C so -85° C to 195° C. Paratherm LR = -40° C to 200° C so -35° C to 195° C). Do not worry about safety if you uncheck the boxes. The Huber has hardware limits set within in the unit that will prevent anything from going wrong. These limits have to be removed/set correctly to allow the software to send the correct setpoints to the Huber for reactor temperature control.

e.g. If the Huber high limit box is checked and set to 100°C and the user has a step which is to control the reactor at 100°C, the highest setpoint the huber will receive from the software is 100°C. But by the time the oil has left the circulator@100°C and reached the reactor jacket, it would have lost heat and the reactor will never reach the users desired temperature.

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4) Whilst in the device properties window select the 'Sensors' tab. See next page

Name: Model:	Circulator Huber Ministat	CC 230
Serial Con Serial Por	munications t Port 1	
~	Effectors	Sensor Name: Temperature Unit: celsius Alarms Enabled Threshold High shutdown level Image: 100 High warning level Image: 90 Low warning level Image: 5 Low shutdown level Image: 1

Select suitable values for the circulator alarms and shutdowns to suit your needs.

e.g. DW Therm range is -90°C to 200°C. Mainly doing reactions at about 100°C, so, just of the top of my head....

High shutdown level = 160 High Warning level = 155 Low Warning level = 10 Low Shutdown level = 5

These values are entirely up to you. They will be logged in your data file should anything go wrong and can provide piece of mind when the unit is running unattended.

5) Save your recipe again!

With these modifications in place, the software should now do as you command. Please send me the data files as I'd like to see the result. The Huber and the Julabo will behave differently and the data will help is making sure they both perform to their full potential in your recipes.