

Topic Sheet: CPC – Auto-disabling sensors at start of run

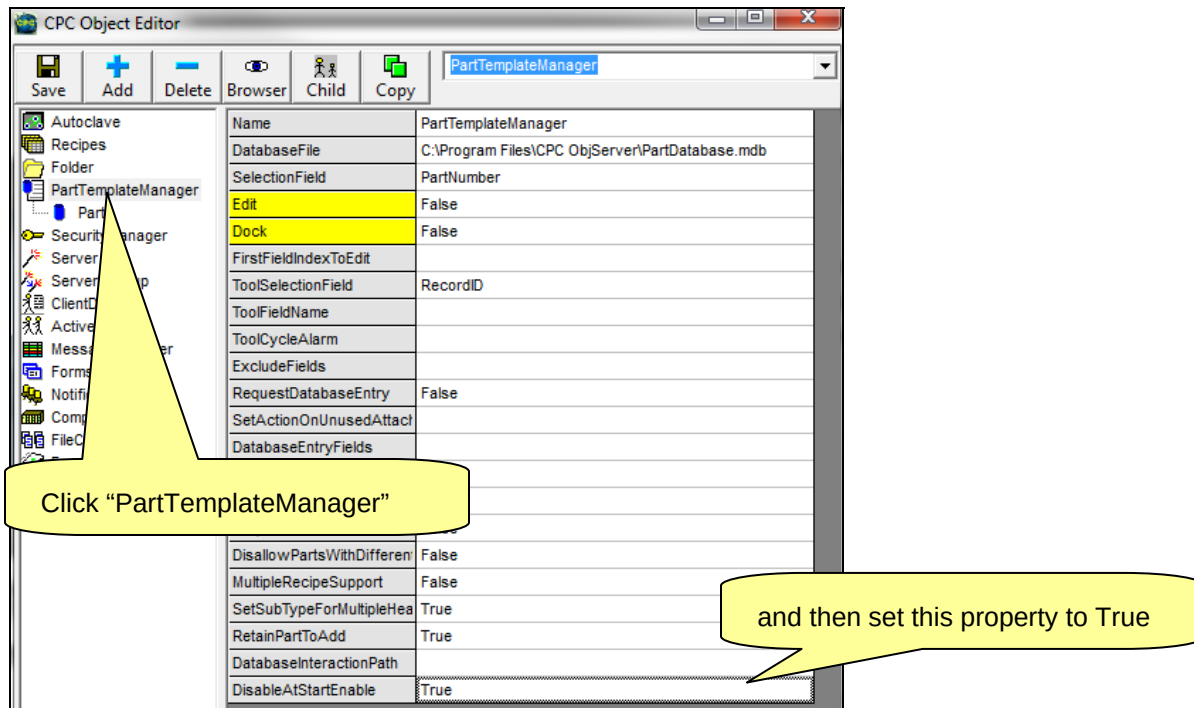
1/10/12 - Mason

Feature description

The new DisableAtStart feature allows the user to instruct the system to disable specific part thermocouples and/or vacuum probes at the beginning of the run, thus removing those sensors from control decisions, but still maintaining the data collection of their values.

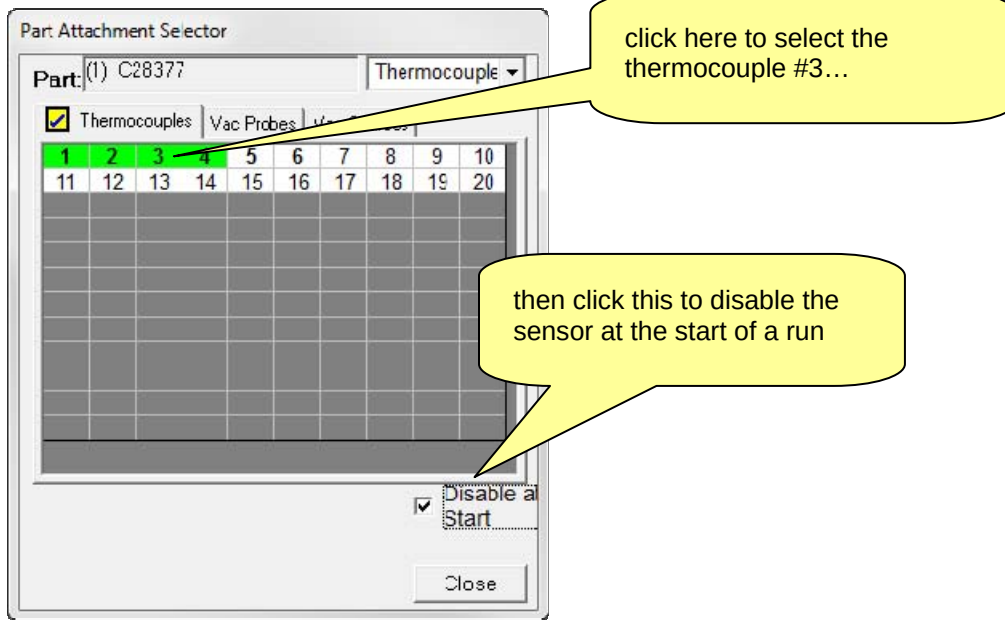
Enabling the feature

You can enable the feature by accessing the PartTemplateManager object and setting the “DisableAtStartEnable” property to True.



Part attachment changes

When the feature is enabled, the part attachment process changes slightly. When you select a specific thermocouple or vacuum probe, a check-box is displayed which lets you select whether that sensor will be "Disable at Start".



You can enable the feature by accessing the PartTemplateManager object and setting the "DisableAtStartEnable" property to True.

Batch viewing changes

When an attachment has been selected for disabling, a "D" will be displayed by the attachment in the part/batch screen.

Select Attachments						
Thermocouples		Vac Sources		Vac Probes		
PTC1	70.0 Deg.F	VAC	VSRC1	PRB	VPRB1	-27.1 Hg
PTC2	70.1 Deg.F					
PTC4	70.1 Deg.F					
D PTC3	70.0 Deg.F					

this indicates that PTC3 will be disabled at the start of a run

What happens at the start of a run

When this feature is enabled, the system will automatically disable the specific sensors at the beginning of a run. You can verify this by viewing the alarm messages, where you will see a blue system message for each sensor that was disabled.

All	Autoclave						
All	System	CureMessage	UnAcknowledged	Active			
All Messages For All Equipment							
	Type	Date	Time	Equipment	Part	Tag	Message
	System	1/10	18:49:55	Autoclave			Start of Run by AUTOUSER
	System	1/10	18:49:55	Autoclave			Recipe Name: Recipes\GKN
	System	1/10	18:49:55	Autoclave			Recipe Description:
	System	1/10	18:49:55	Autoclave			Recipe Specification:
	System	1/10	18:49:55	Autoclave			Recipe Revision: A
	System	1/10	18:49:55	Autoclave			Recipe Audit Track: 2
	System	1/10	18:49:55	Autoclave			Recipe Mod: 9/27/2011 2:06:06 PM
	System	1/10	18:49:55	Autoclave			Segment changed from 0 to 1
	CureMess:	1/10	18:49:55	Autoclave			Initial pressure
	System	1/10	18:49:55	Autoclave	1	PTC3	PTC3 on Part #1 auto-disabled.
	System	1/10	18:49:56	Autoclave		PRESS	Watch1: Wait Status Enabled
	System	1/10	18:49:56	Autoclave		WAIT	Replaced in WAIT Mode

message indicates that PTC3 was automatically disabled.

Use with DatabaseInteraction object

The DisableAtStart feature is added to the DatabaseInteraction capability. When the customer creates the PartAttachments table entries, they can include a True (-1) or False (0) in the field called "DisableAtStart". When the table is loaded into CPC, the system will automatically set the feature for those attachments marked with a True.