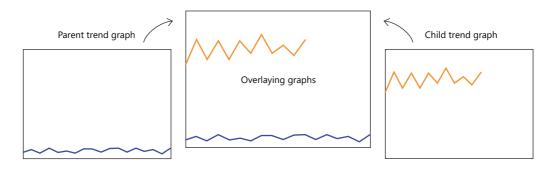
7.3.5 Asynchronous Display of Multiple Trend Graphs

All the trend lines in the graph area are drawn at the same points and at the same timing because trend graphs have one word of control device memory. To draw multiple trend lines at different timings, two or more graphs must be overlaid and linked, thereby assigning priorities to respective control device memory.



Setting Procedure

This section explains drawing multiple graphs with an example of displaying two trend graphs asynchronously.

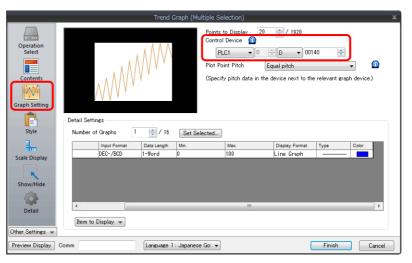
- 1. Place two trend graphs.
- 2. Set D120 to [Graph Setting] → [Control Device] in the [Trend] settings window.

Trend Graph ×									
Operation Select Contents Graph Setting	Detail Setti	nes	M	Control I PLC Plot Poir	1 • 0 🐳	D old of the old of	evant graph devic	() (2)	
Style	Number of Graph No.	f Graphs 1 Device	/ 16 Se	t Selected_ Data Length	Min.	Max.	Display Format	Type	
Scale Display	0	R00000	DEC-/BCD	1-Word	0	100	Line Graph		
Show/Hide Detail	•			m				Þ	
Other Settings 👻	Item to	Display 👻							
Preview Display	Comm TRND	SPL 00000	Language 1 : Japa	nese Go 👻		F	inish	Cancel	

3. Set "High Speed" for [Detail] \rightarrow [Process Cycle] and "0" for [ID] (parent trend graph).

Trend Graph (Multiple Selection)								
	Coodinates							
Operation Select	Start X 100 🚔	Start Y 100 🚔	Width 16	60 🔄	Height 12	0		
Select	Others							
	Process Cycle High	Speed 👻						
Contents	Overlap							
<u> </u>	Use the background operation function							
Graph Setting	ID 0	255						
Ē						<u>Detail Settings<<</u>		
Style								
4								
Scale Display								
ĸ								
Show/Hide								
Detail								
Other Settings 👻]							
Preview Display	Comm	Language 1 : Japanese (Go. 🔺		(Finish Cancel		

4. In the [Trend] settings window of the other graph, set D140 to [Graph Setting] \rightarrow [Control Device].



5. Set "High Speed" for [Detail] \rightarrow [Process Cycle] and "0" for [Overlap] (child trend graph).

		Trend Gra	aph (Multiple Sel	ection)			x
Operation Select	Coodinates						
	Start X 144	Start Y 102	Width	114	Height	118 🔿	
	Others						
Contents	Process Cycle	High Speed 🛛 🔻					
<u>}</u> //	Verlap Link ID	0 🜲 / 255					
Graph Setting	Use the background operation function						
Style	ID	1 🚔 /255				Detail Settings<<	
4							
Scale Display							
N.							
Show/Hide							
Other Settings 👻]						
Preview Display	Comm	Language 1:	Japanese Go 👻			Finish C	Cancel

6. Place the parent trend graph under the child trend graph to overlap the two graphs.

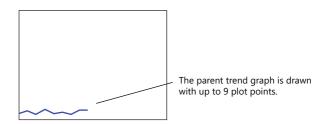
This completes the necessary settings.

The graphs are drawn using the D120 control device memory (parent trend graph).

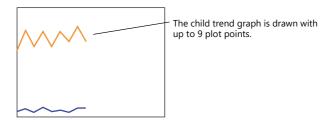
Display Method

This section explains how to draw two trend graphs based on the example in "Setting Procedure" page 7-45.

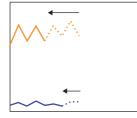
1. Set D120 to 9H (number of plotted points).



2. Set D140 to 9H (number of plotted points).



3. Set the D140 to 5H (number of plotted points) and set D120 to 8007H ("redraw after clear" and number of plotted points).



Change the number of plotted points to 5 points in the child trend graph and send the "change" and "redraw after clear" commands from the parent trend graph at the same time.

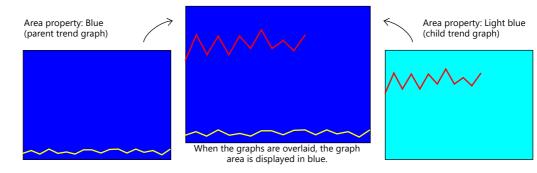
The 5 points of the child trend graph are drawn for the first time.

Notes on Setting

- When linking two or more trend graphs, regard one trend graph as a "parent" and the other trend graph as a "child." Select the [Detail] → [Overlap] checkbox for the child trend graph and set the ID of the parent trend graph. Both the "redraw" and "redraw after clear" commands issued at the child trend graph are ignored and only the commands from the control device memory of the parent trend graph are accepted.
- Set [Process Cycle] to "High Speed" for all the trend graphs that are linked.
- Only the area property settings of the parent trend graph are available. The area property settings of the child trend graph are not displayed.

In addition, the reference lines set for the child trend graph area ignored.

• Place the child trend graph over the parent trend graph using the [Bring to Top] or [Send to Bottom] icon. If the parent trend graph is placed over the child trend graph, these two graphs will not be linked correctly.



• When the parent trend graph is set to be always displayed, both the parent and child trend graphs are displayed at all times.