Function Block 200, 201, 203   Connectors

Read Connector FB200

Write Connector FB201
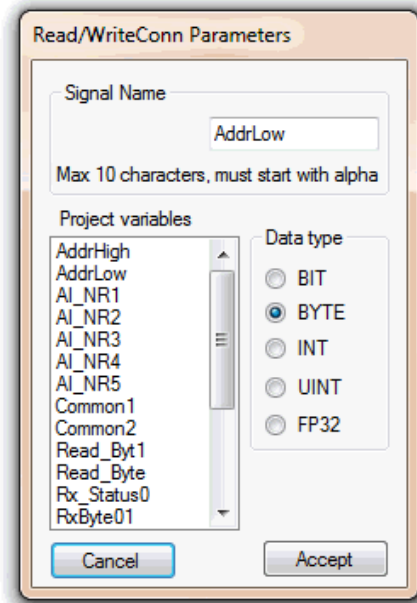
Write Connector (Seq) FB203

Function Description

The main purpose of the above 3 'connectors' is to allow the output signals from a function block on one code-page to be connected to the inputs of one or more function blocks on the same, or other, code pages. Each Write Connector must be assigning a unique name. For each Write Connector (FB201) with a particular Signal Name you can have as many Read Connectors (FB200) as your application require. Write Connector (Seq) FB203 is an exception to the above rule, i.e. you can have multiple Write Connectors of type FB203 with the same signal name. FB203 is used in sequence steps where it is required to write to the same signal in different steps of the sequence.

Double click on a connector to obtain the Read/WriteConn Parameters dialog where you can enter/edit a Signal Name and Data type. The dialog box will also list all the signal names currently in the project. A double click on any of these names in the list will select that name and its data type for the current signal.

Popup Parameters

- Signal Name: Can be maximum 10 characters. Must begin with an alpha character and may contain alphanumeric characters and the under bar, and is case sensitive. Do not use any of the Microchip assembler reserved names.

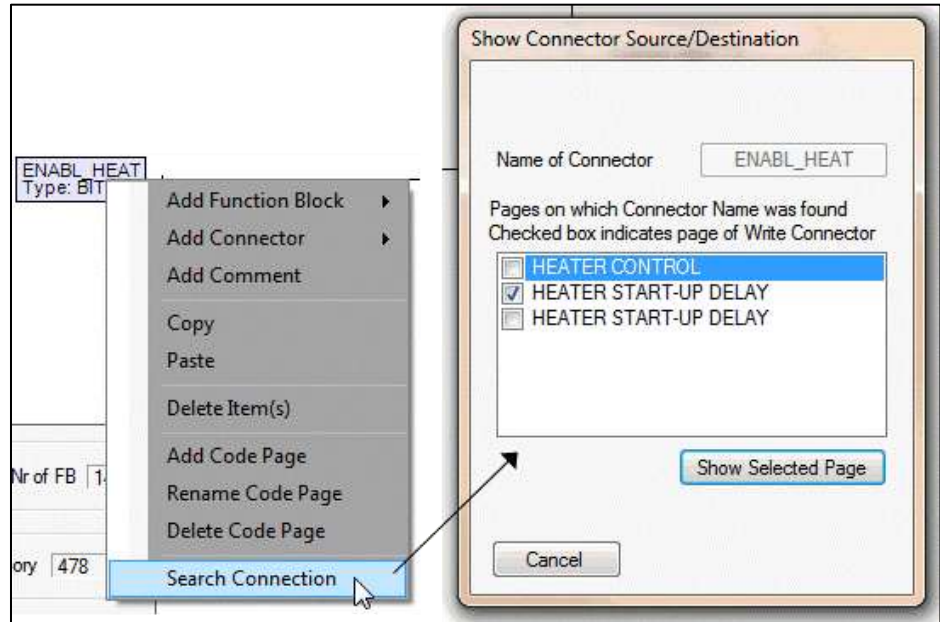- Data type: Radio buttons allow for selecting BIT, BYTE, INT, UINT, and FP32 for the current signal data type.

Input/Output and Parameters

Type	Description	Data Type	Range
Input or Output	Input or Output signals	Selectable	Depending on data type selected

Signal searching

A search facility is provided for signal connectors that will list all the code-pages where a particular signal's write connector and read connector(s) are located.

Place the mouse cursor on a Read or Write Connector, then right-click to obtain the drop-down menu. Select the Search Connection item as indicated to obtain a popup showing the names of all Code Pages where the signal is located

Signal value adjust in on-line or simulator mode

It is not required to have for every Read connector a correspondingly named Write connector or visa versa. In fact having only a Read connector can be very handy for development and testing, because as no Write connecter is writing the signal value, it gives you the ability to modify the signal value on-line.

In on-line or simulator mode all Read connectors will display a red rectangle on the right side. A single click on this rectangle will open a dialog box where you can enter a new value for the selected signal. Operating the Enter button will write the value you entered in the TextBox to the running microcontroller or virtual memory in the case of the simulator.