

# Weintek HMI to Allen Bradley Studio 5000 PLCs



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## Weintek HMI to Allen Bradley Studio 5000 PLCs

**Introduction:** This instruction manual discusses how to export tags from Allen Bradley RSLogix 5000 and import tags into EasyBuilder Pro. The L5X file generated from RSLogix 5000 software contains information about **Data Type (user-defined)**, **IO Module**, and **Alias**. Importing tags via L5X file simplifies the steps to integrate with RSLogix 5000 projects and allows HMI developers to access their tags with a few clicks. It is easy to import your tags, multi-dimensional arrays, aliases, and I/O module tags directly into a Weintek HMI.

Note: Alias tags, which are tags assigned to other tags, are not accessible in EasyBuilder Pro when using CSV file to import tags.

**Equipment & software:** Easybuilder Pro version 6.03.01.339 or greater.

### Exporting the PLC tags (PLC Side):

The L5X file, which is an XML file that can be edited in XML editor or text editor, is the accepted file format in EasyBuilder Pro. To generate your L5X file, the following steps are required.

1. Open your project in RSLogix 5000.
2. On the toolbar, go to [File] » [Save As].
3. The [Save As] dialog will pop up. Select the desired location to save it.
4. Enter the name of the file into the **File name** box.
5. From the **Save as type** list, select **Logix Designer XML File (\*.L5X)** for the format type.
6. Click **Save**.

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## Importing the PLC tags (HMI Side):

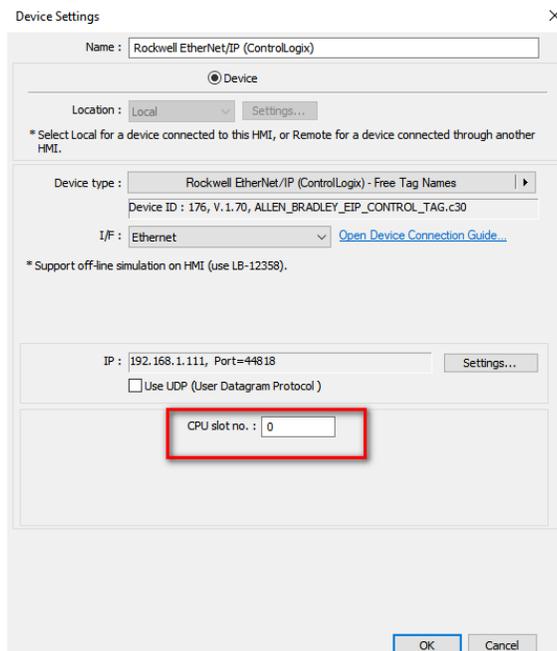
1. Open a new project in Easybuilder Pro and select your HMI model.
2. To get the HMI talking to the Studio 5000 PLC, go to the [Home] tab » [System Parameters].



3. You will need to select one of the following drivers based on the PLC model you have.

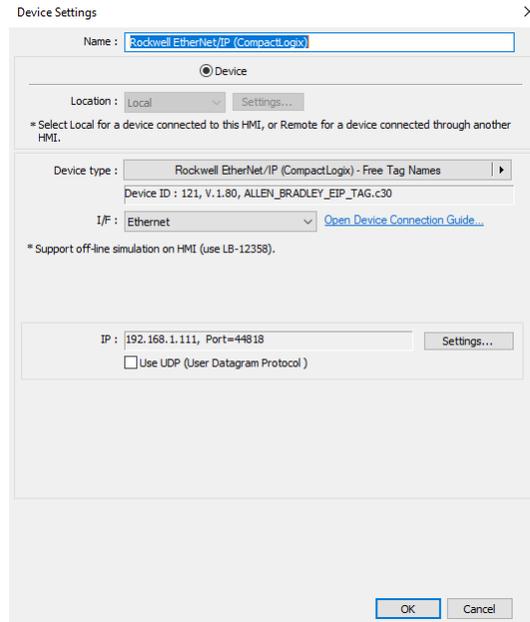
Driver Name	PLC Models
Rockwell EtherNet/IP (CompactLogix)-Free Tag Names	CompactLogix
Rockwell EtherNet/IP (ControlLogix)-Free Tag Names	ControlLogix, ControlLogix with Ethernet module

Note: If using the **Rockwell EtherNet/IP (ControlLogix)-Free Tag Names** driver, please enter the correct CPU slot number for this driver based on which slot the PLC CPU unit is located.

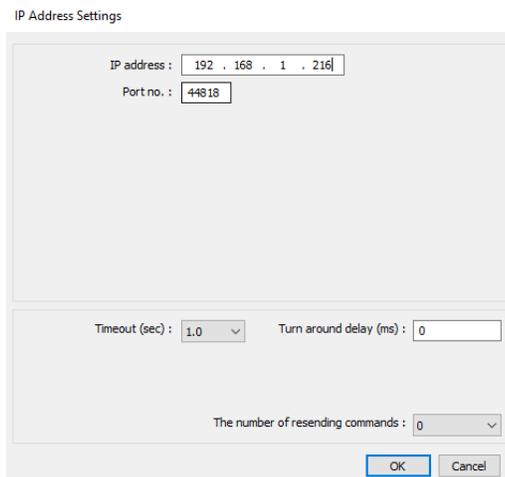


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In this case, the **Rockwell EtherNet/IP (CompactLogix)-Free Tag Names** driver is added to the Device List.

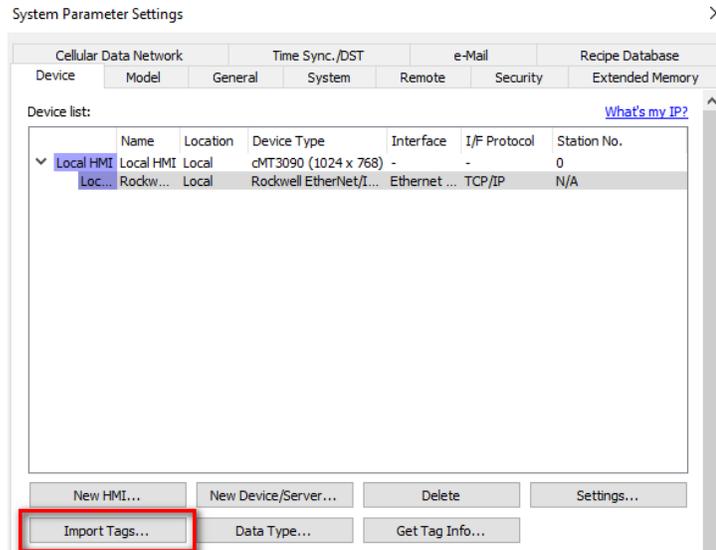


4. Click on [Setting...] on the previous window. Enter the IP address and port number.

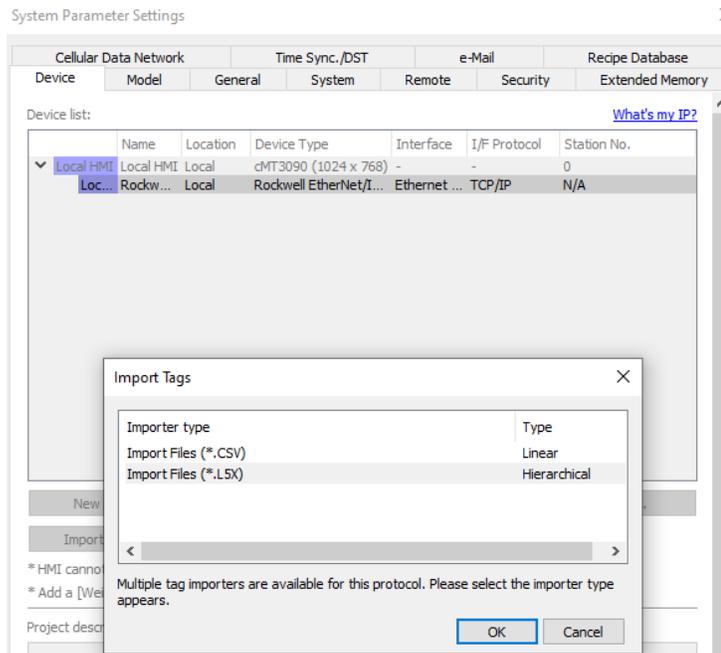


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5. Click [Import Tags...] button.

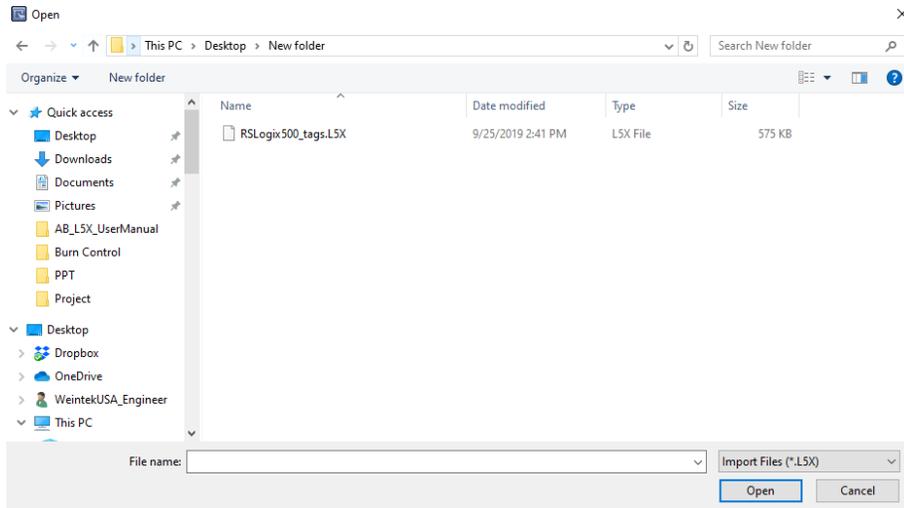


6. Select **Import Files (\*.L5X)** and click **OK**.

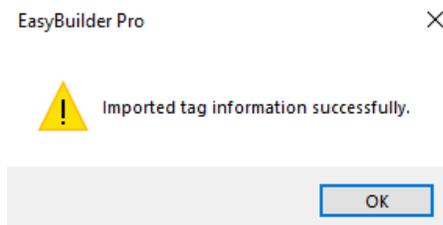


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7. Navigate to the L5X file. Select this generated file and click **Open**.



8. If it succeeds, the below dialog will come up. Click **OK**.



9. Click **OK** to close the [System Parameter Settings] dialog.

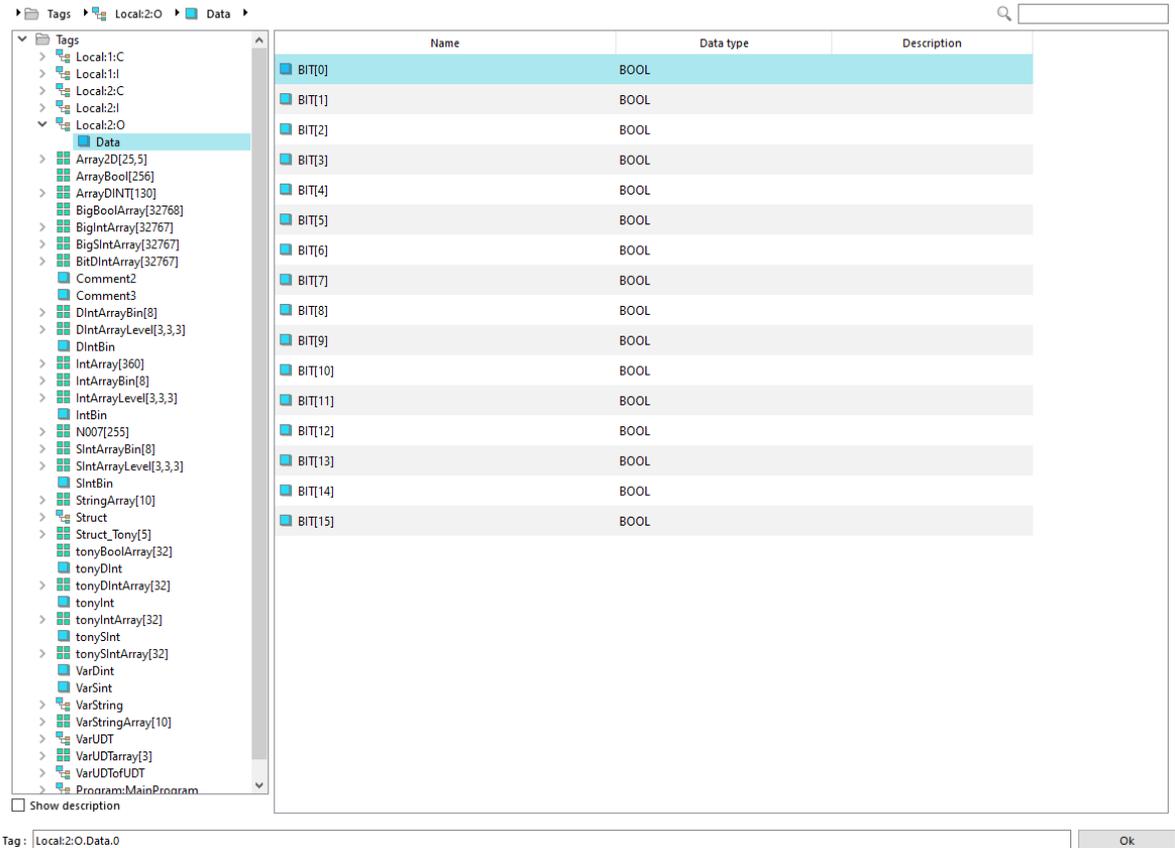
10. To see your tags, create a basic object, such as [Bit Lamp] object or [Numeric] object.

Note: Boolean tags are only accessible in Bit objects. Word objects can only display Word tags.

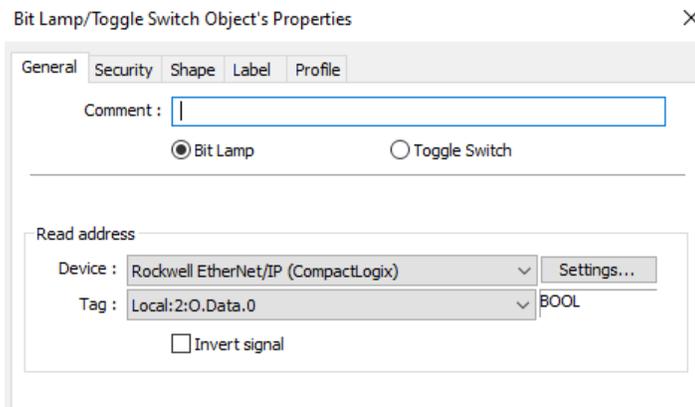
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## Example of HMI Programming:

1. Create a [Bit Lamp] object. Select an address under [Read/ Write address].

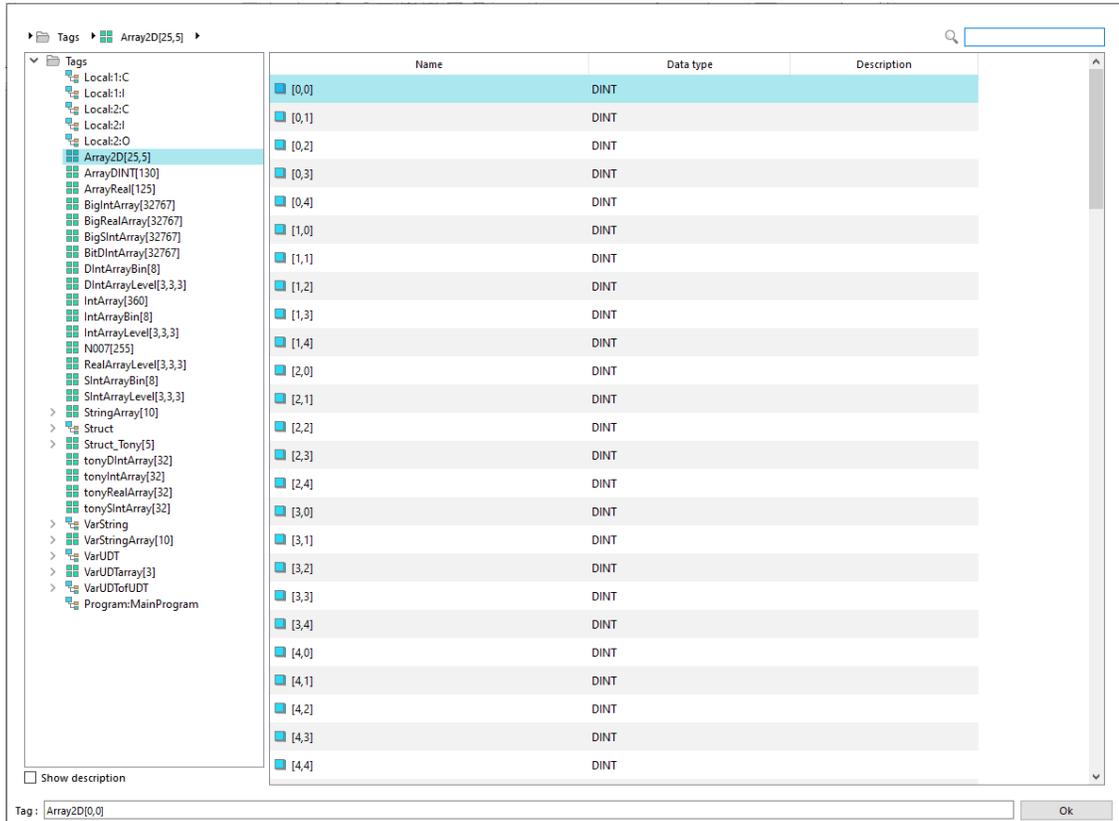


2. Click **OK**.

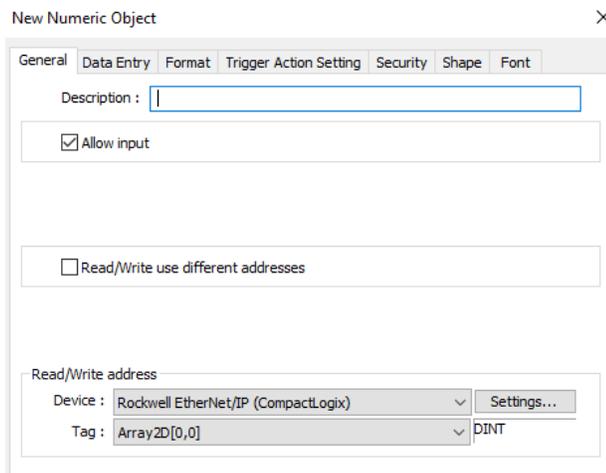


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3. Create a [Numeric] object. Select an address under [Read/ Write address].

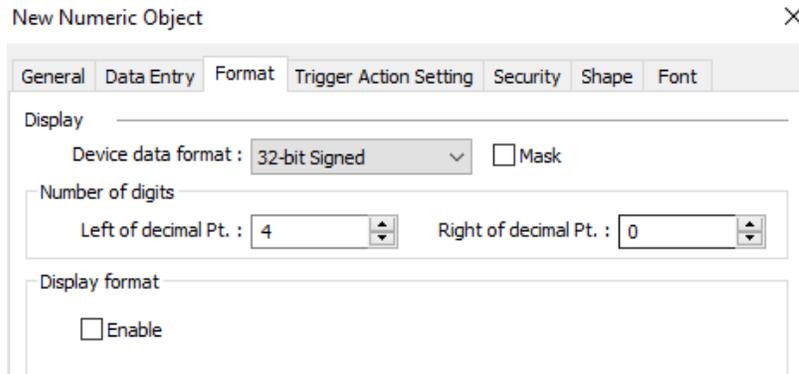


4. Go to [Format] tab.

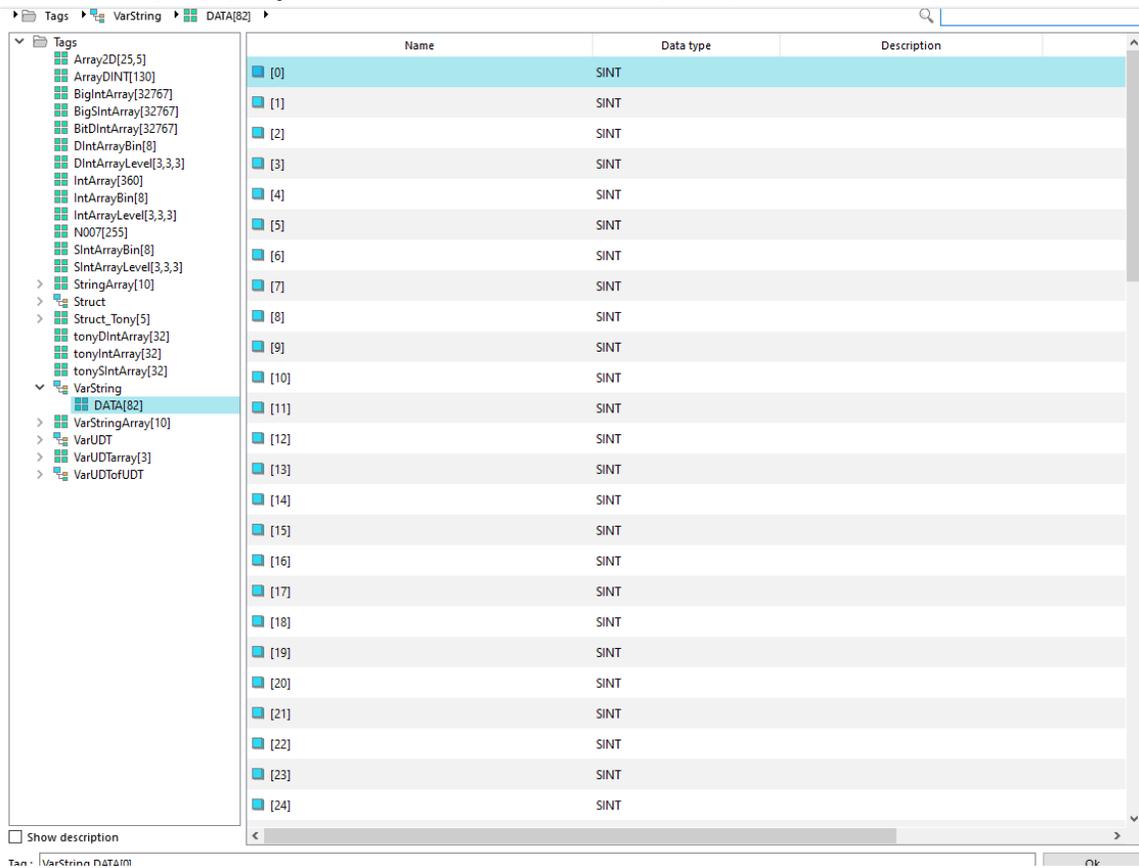


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5. Select the correct data type.

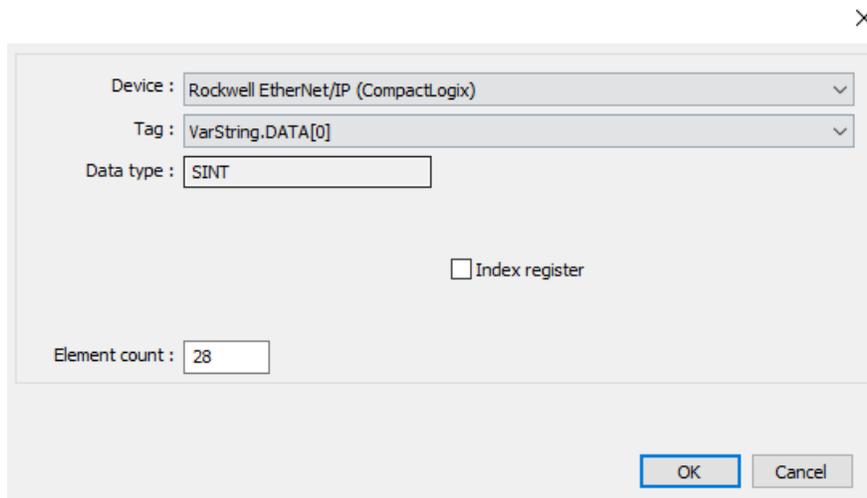


6. Create a [ASCII] object. Select an address under [Read/ Write address].



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- Click the [Settings...] button and set the appropriate word count.



- While the [General] tab is selected ensure that the [Data format] is set to [Unicode].

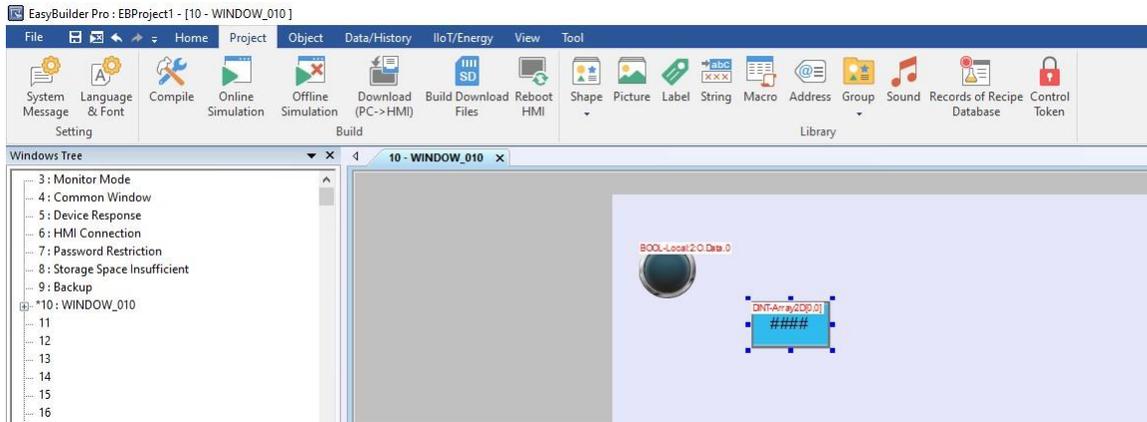


**Note: If [Data format] is not set to [Unicode], String data may not transfer correctly.**



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9. Go to [Project] » [Online Simulation] to run the emulator.



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Founded in 1996, WEINTEK LABS is a global-leading HMI manufacturer and is dedicated to the development, design, and manufacturing of practical HMI solutions. WEINTEK LAB's mission is to provide quality, customizable HMI-solutions that meet the needs of all industrial automation requirements while maintaining customer satisfaction by providing "on-demand" customer service. WEINTEK LABS brought their innovative technology to the United States in 2016, WEINTEK USA, INC., to provide quality and expedient solutions to the North American industrial market.

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