

Logix500 PLC Addressing in EasyBuilder Pro



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Logix500 PLC Addressing in EasyBuilder Pro

Introduction: This instruction manual discusses how to correctly specify RSLogix 500 addresses in EasyBuilder Pro. EasyBuilder Pro requires some specific addressing format to communicate with RSLogix 500 PLCs.

O0-OUTPUT ([O0:W/B], W: word number, B: bit number)

For Example – to access the O0 data file, word 0 bit 8 (O0:0/8), specify O0, 008 for the address. The last two digits are used for the bit reference.

Device : Rockwell DF1

Address : O0 008

I1-INPUT ([I1:W/B], W: word number, B: bit number)

For Example – to access the I1 data file, word 3 bit 15 (I1: 3/15), specify I1, 315 for the address. The last two digits are used for the bit reference.

Device : Rockwell DF1

Address : I1 315

B3-BINARY (B3:W/B, W: word number, B: bit number)

For Example – to access the B3 data file, word 1 bit 5 (B3:1/5), specify B3, 105 for the address. The last two digits are used for the bit reference.

Device : Rockwell DF1

Address : B3 105

T4-TIMER

For Example – to access the T4 data file, word 4 **Preset** (T4:4/PRE), specify T4SV, 004 for the address.

Device : Rockwell DF1

Address : T4SV 004

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For Example – to access the T4 data file, word 7 **Accum** (T4:7/ACC), specify T4PV, 007 for the address.

Device :

Address :

C5-COUNTER

For Example – to access the C5 data file, word 4 **Preset** (C5:4/PRE), specify C5SV, 004 for the address.

Device :

Address :

For Example – to access the C5 data file, word 7 **Accum** (C5:7/ACC), specify C5PV, 007 for the address.

Device :

Address :

N7-INTEGER (N7:W, W: word number)

For Example – to access the N7 data file, word 50 (N7:50), specify N7, 50 for the address.

Device :

Address :

F8- FLOAT (F8:W, W: word number)

For Example – to access the F8 data file, word 89 (F8:89), specify F8, 89 for the address.

Device :

Address :

L-LONG (Lx:W, x: data file number, W: word number)

For Example – to access the L35 data file, word 1 (L35:1), specify Lfn, 035001 for the address. The first three digits are the file number.

Device :

Address :

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ST-String (STx: x: data file number, W: word number)

For Example – to access the ST9 data file, word 15 (ST9:15), specify STfn, 00901500 for the address. The last two digits are used for the index. Typically these two digits will be set to 00. The length of string is required to enter in Easybuilder Pro.

The screenshot shows the address configuration dialog in EasyBuilder Pro. The 'Device' dropdown is set to 'Rockwell DF1'. The 'Address type' dropdown is set to 'STfn'. The 'Address' text box contains '00901500'. The 'Address format' dropdown is set to 'DDD.DDD.DD [range : 0 ~ 255.255.40]'. There is an unchecked checkbox for 'Index register'. The 'No. of word' text box contains '10'.

How to access Bx/Nx/Fx/Tx/Cx data files (x: data file number)

Use the following address.

Data File in Logix 500	Address in EasyBuilder Pro
Bx	Bfn
Nx	Nfn
Fx	Ffn
Tx.PRE	TfnSV
Tx.ACC	TfnPV
Cx.PRE	CfnSV
Cx.ACC	CfnPV

For Example – to access the B10 data file, word 5 bit 8 (B10:5/8), specify Bfn, 01000508 for the address. The first three digits are the file number. The last two digits are used for the bit reference.

The screenshot shows the address configuration dialog in EasyBuilder Pro. The 'Device' dropdown is set to 'Rockwell DF1'. The 'Address type' dropdown is set to 'Bfn'. The 'Address' text box contains '01000508'. There is a 'Settings...' button to the right of the device dropdown.

For Example – to access the N27 data file, word 5 (N27:5), specify Nfn, 027005 for the address. The first three digits are the file number.

The screenshot shows the address configuration dialog in EasyBuilder Pro. The 'Device' dropdown is set to 'Rockwell DF1'. The 'Address type' dropdown is set to 'Nfn'. The 'Address' text box contains '027005'. There is a 'Settings...' button to the right of the device dropdown.

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How to access bits within N7/Nx/Lfn data files (Nx:W/B, x: data file number, W: word number, B: bit number)

For Example – to access the N7 data file, word 50 bit 6 (N7:50/6), specify Nfn, 00705006 for the address. The first three digits are the file number. The last two digits are used for the bit reference.

Device : Rockwell DF1 Settings...

Address : NfnBit

Invert signal

For Example – to access the L35 data file, word 1 bit 4 (L35:1/4), specify Lfn, 03500104 for the address. The first three digits are the file number. The last two digits are used for the bit reference.

Device : Rockwell DF1 Settings...

Address : Lfn_Bit

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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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