

DPAS

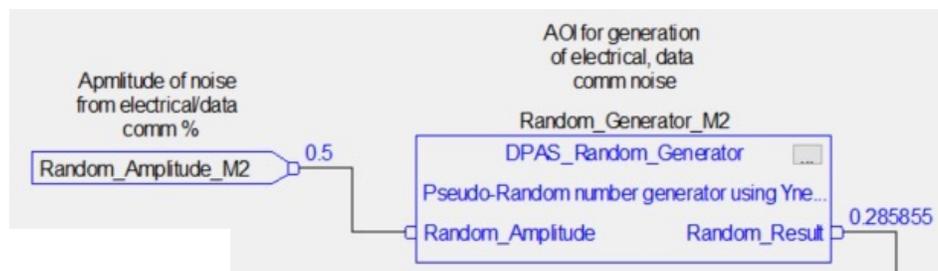
“Random Generator” A Rockwell Logix v21 Add On Instruction (AOI)

This AOI was developed to provide a random number generator function block. It is a Pseudo-Random number generator using $Ynew=(yold*1909+221571) \text{ MOD (Resolution)}$.

The parameters on the AOI are as follows:

Name	Usage	Data Type	Alias For	Default	Style	Re	Vis	Description	External Acces	Constant
EnableIn	Input	BOOL		1	Decim...	<input type="checkbox"/>	<input type="checkbox"/>	Enable Input - System Defined Parameter	Read Only	<input type="checkbox"/>
EnableOut	Output	BOOL		0	Decim...	<input type="checkbox"/>	<input type="checkbox"/>	Enable Output - System Defined Parameter	Read Only	<input type="checkbox"/>
Random_Result	Output	REAL		0.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Result of random generator, used as seed ...	None	<input type="checkbox"/>
Random_Seed	Input	REAL		0.0	Float	<input type="checkbox"/>	<input type="checkbox"/>	Seed value, from last iteration	Read/Write	<input type="checkbox"/>
Random_Amplitude	Input	REAL		0.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Amplitude of signal (base signal range is 0-1)	Read/Write	<input type="checkbox"/>

In runtime, it appears as:



This AOI (DPAS_Random_Generator.L5X) was developed in Logix v21. It can be imported into any later version of Logix.

Provided without warranty; all use and behavior is responsibility of user, no obligation to DPAS.

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