

# DPAS

## “Root”

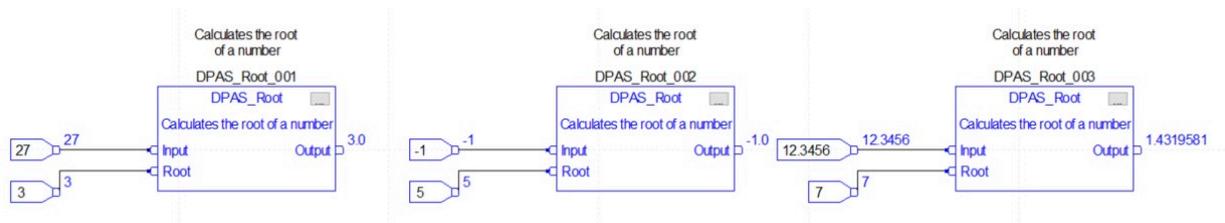
### A Rockwell Logix v21 Add On Instruction (AOI)

This AOI was developed to calculate the root of a number. It allows the root to be any specified integer. It handles cases in which input is a negative number.

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"/>
Input	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Input value	Read/Write	<input type="checkbox"/>
+ Root	Input	DINT		2	Decim...	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Root (integer)	Read/Write	<input type="checkbox"/>
Output	Output	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Result	Read/Write	<input type="checkbox"/>

In runtime, it appears as:



This AOI (DPAS\_Root.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.

This software is provided as shareware. If you find this valuable and would like to make a voluntary contribution, you can mail a check to DPAS Inc, PO Box 4187, Lago Vista TX 78645 or contribute at <https://www.dpas-inc.com/resources>.