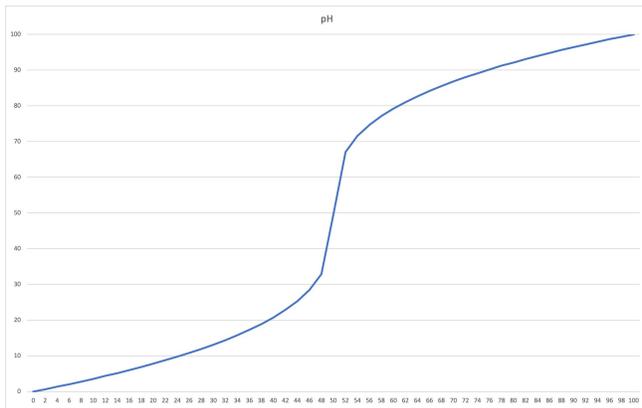


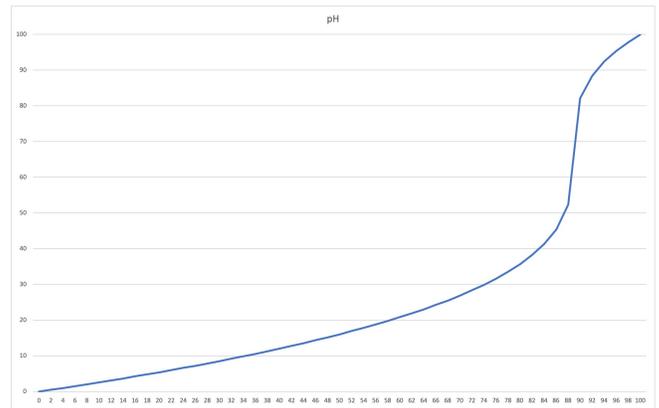
DPAS

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

This AOI was developed to simulate the steady-state gain of a pH response. This is an approximation of the titration response curve. The function models the open loop response from the actuator from 0% to 100% to the resulting measurement with the maximum pH range (default 0 to 14 in pH units) specified and the scale of the measurement will range 0% to 100% as follows:



Range 0 pH - 14 pH



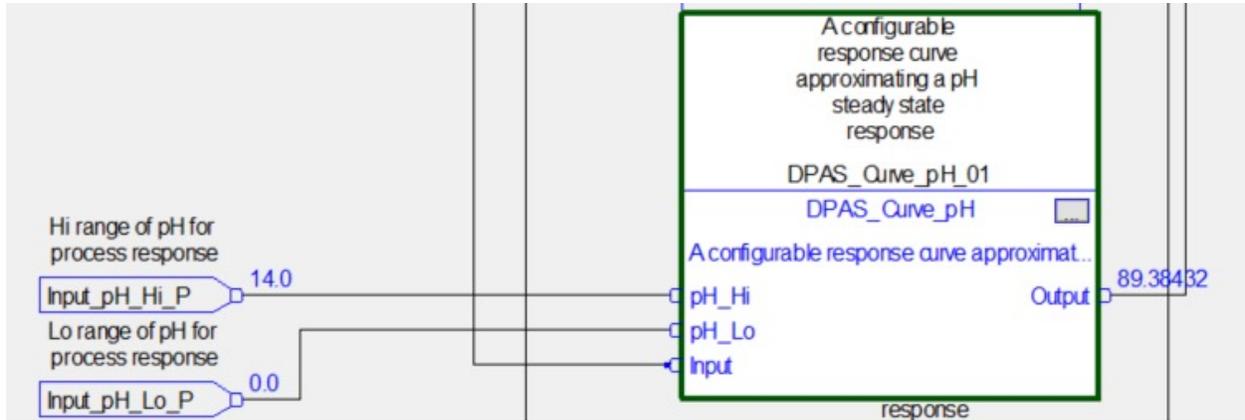
Range 5 pH - 8 pH

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"/>
pH_Hi	Input	REAL		14.0	Float	<input type="checkbox"/>	<input type="checkbox"/>	Hi range of pH	Read/Write	<input type="checkbox"/>
pH_Lo	Input	REAL		0.0	Float	<input type="checkbox"/>	<input type="checkbox"/>	Lo range of pH	Read/Write	<input type="checkbox"/>
Output	Output	REAL		0.0	Float	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Output in % of range	Read/Write	<input type="checkbox"/>
Input	Input	REAL		0.0	Float	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Input in % of range	Read/Write	<input type="checkbox"/>

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In runtime, it appears as:



This AOI (DPAS_Curve_pH.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>.