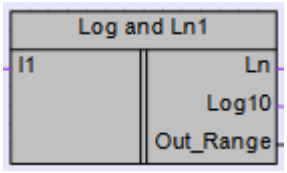
Log10 and Ln Calculation

Log and Ln



Input	Data type	Description	Range
I1	FLOAT	Selected Number	0.05…3000
Output	**Data type**	**Description**	**Range**
Ln	FLOAT	Natural Logarithm value	
Log10	FLOAT	Decimal Logarithm value	
Out_Range	BOOL	0 – Input within range 1 – Input outside range	

Function

By using this Macro, the decimal and natural Logarithm value of a selected number in a range between 0,05 and 3000 can be calculated with a maximal error of 0,3%. If the selected number is outside the range, the result for Output Ln and Log10 will be 0 and the Output Out_Range will be “1”.

This macro uses an additional macro “Range_Log” to execute the calculation. It will be automatically included once the macro Log and Ln is imported.

In case a different range is needed, please contact the Akytec GmbH Technical Support Group.

Devices	PR200
Version	1.1
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