

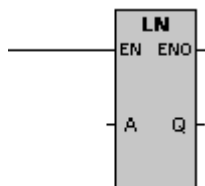
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LN (Natural Logarithm)

Function name	LN_010
Function version	1.0
Function state	stable
Compatibility with IEC61131-3	compatible

Graphic symbol :



Input / Output :

Name	Belonging Group	Access	Types of data	Description
EN	Left Power Flow			IEC1131-3 enable input
A	Normal	R, RW	F, B, W, L, S	Input variable A
Q	Normal	W, RW	F, B, W, L, S	Result of the operation $Q = \ln(A)$
ENO	Right Power Flow			IEC1131-3 enable output

Description :

The Logarithm in natural base calculates the logarithm in natural base of the value in A and place the result in Q. The eventual overflow in the result is ignored.

The logarithm in natural base of number less or equal to zero is not an error, but calculates Q equal to 256 for Q of type flag, byte, word and long; for Q of type float Q is -3,404823466e+038

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