

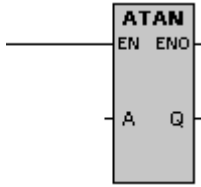
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ATAN (Arc Tangent)

Function name	ATAN_010
Function version	1.0
Function state	stable
Compatibility with IEC61131-3	not 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 in radians $Q = \text{ATAN}(A)$
ENO	Right Power Flow			IEC1131-3 enable output

Description :

This function executes the operation Arctangent; it calculates the trigonometric function arctangent of the value A and place the result in Q. The output angle is in radians. To convert an angle from degrees to radians, you have to multiply it by $1.745329\text{E-}2$ (corresponding to about $\pi / 180$).

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