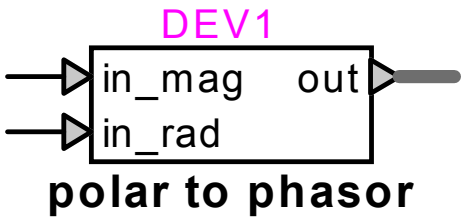
Phasor operation : polar to phasor



Phasor operation : polar to phasor 1
1 Description 1
1.1 Pins 1
1.2 Parameters 1
1.3 Input 1
1.4 Output 1

1 Description

This device combines the magnitude and angle of a phasor into a 2-signal bundle.

1.1 Pins

This device has three pins:

pin	*type*	*description*	*units*
in_mag	input pin	magnitude	any
in_rad	input pin	angle	rad
out	2-signal bundle	magnitude	same as in_mag
		angle	rad

1.2 Parameters

No parameters are required for this device.

1.3 Input

The input pins may be connected to any control signals.
The polar coordinates are the magnitude and angle of a vector or phasor in a reference frame.
The phasor magnitude is the peak amplitude, not the RMS value. The phasor angle is expressed in radians.

1.4 Output

The output is a 2-signal bundle of the polar coordinates of the phasor used as input.
The conversion from polar to phasor is immediate.