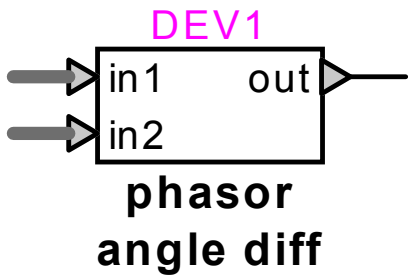
Phasor operation : phasor angle difference



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1 Description

This device calculates the angle difference between two vectors or phasors represented by 2-signal bundles of their polar coordinates.

1.1 Pins

This device has three pins:

pin	*type*	*description*	*units*
in1	2-signal bundle	input-1 magnitude	any
		input-1 angle	rad
in2	2-signal bundle	input-2 magnitude	same as in1_mag
		input-2 angle	rad
out	output pin	angle difference	rad

1.2 Parameters

No parameters are required for this device.

1.3 Input

The input pins may be connected to any control signals.

1.4 Output

The output is the angular difference between the two input vectors.
The operation is immediate, and is calculated as follows:

$$out = in1_rad - in2_rad \quad (1)$$