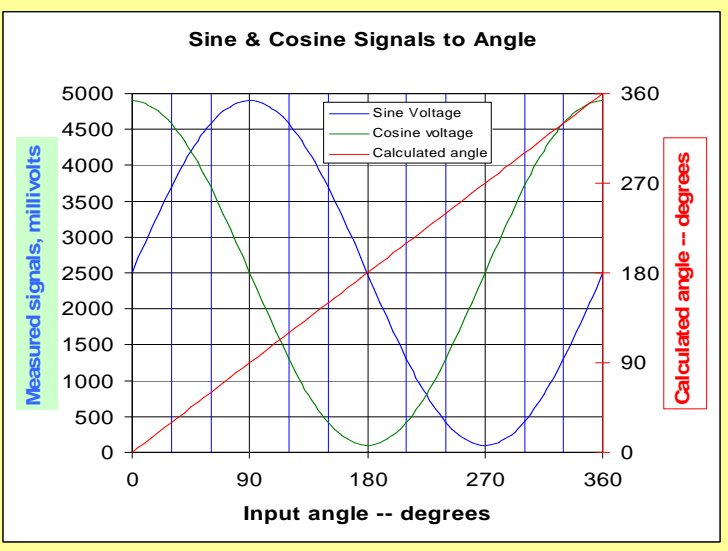


<p>DESCRIPTION --- Sin-cos hallpot® resolvers enable measurement of angles through 360 degrees. Two simultaneous signals, a sine response and a cosine response, are produced for each 360 degree rotation. When processed with a decoding algorithm they produce a direct reading of angle of rotation from 0 to 360 degrees. A file arctan decoding.xls demonstrates the principle of a decoding method. Arctan decoding is the most accurate way to produce angular readout and it eliminates the slight positive temperature coefficient of the signals. Frequency response is in excess of 20 KHz which is beyond the needs of most control systems.</p>	Click here to >>>>> Return to Home Page	
		
	<p>Model 100SB-SC – Two ball bearings are used on the shaft</p>	<p>Model 100TJ-SC – Hardcoat anodized aluminum journal bearing is used.</p>

SPECIFICATIONS	VOLTAGE	<p>These devices track the power supply voltage for both Ebo and Vp. Refer to Principles of Operation for definition of the parameters.</p>	
100SB-SC	<p>Allowable range --- +4.5 to +5.5 Vdc at 16 to 20 ma.</p>		
100TJ-SC			
<p>Normal operating voltage should be + 5000 mv. Units are calibrated at +5000 mv</p>			

Click here for:

- Hallpot® [DIMENSIONS](#) --- Describes the dimensions of the standard common versions.
- Hallpot® [ENVIRONMENTAL](#) --- Describes the design criteria for the working environment.
- Hallpot® [MOUNTING](#) --- shows various ways to properly mount hallpot® sensors
- [arctan decoding.xls](#) ---This file contains two pages. One is *Demonstration* and the second is *Experimental* to enable you to change the parameters and see what happens.