



## ENSESA, S.A. DE C.V.

Los clinómetros biaxiales modelo 901 y 902 miden exactamente la posición angular en lugares donde está limitado el espacio. Estas unidades económicas colocadas cuidadosamente dentro de cubiertas de presión, herramientas de buena lectura y otros lugares pequeños. Los modelos 901 y 902 referenciados a la gravedad miden las rotaciones en dos ejes ortogonales y sus salidas de alto nivel del voltaje conducen a través de cables largos.



	Models 901 & 902	Models 901-45 & 902-45	Models 901-H & 902-H
<b>OUTPUT CHANNELS</b>	X and Y tilt, $\pm 2.5$ VDC standard, 0-5 VDC available	X and Y tilt, $\pm 2$ VDC standard, 0-5 VDC available	X and Y tilt, $\pm 2.5$ VDC standard, 0-5 VDC available
<b>ANGULAR RANGE</b>	$\pm 25$ degrees (50 degree span)	$\pm 50$ degrees (100 degree span)	$\pm 10$ degrees (20 degree span)
<b>SCALE FACTORS</b>	10 degrees/V typical	25 degrees/V typical	4 degrees/V typical
<b>LINEARITY</b>	1% over half span, 2.5% over full span typical; factory polynomials improve linearity by 10x	1.2% over half span, 7.5% of full span typical; factory polynomials improve linearity by 10x	1% of full span typical
<b>RESOLUTION</b>	0.01 degree	0.02 degree	0.005 degree
<b>REPEATABILITY</b>	0.02 degree at constant temperature	0.04 degree at constant temperature	0.01 degree at constant temperature
<b>HYSTERESIS</b>	<0.02 degree	<0.04 degree	<0.02 degree
<b>TEMPERATURE COEF.</b>	Span: +0.03%/°C, Zero: 10-20 arc sec/°C typical	Span: +0.03%/°C, Zero: 10-20 arc sec/°C typical	Span: +0.03%/°C, Zero: 10-20 arc sec/°C typical
<b>TIME CONSTANT, T</b>	150 msec; output is proportional to $1 - e^{-t/T} - 0.001e^{-t/5000T}$ where t = time in seconds		
<b>NATURAL FREQUENCY</b>	10 Hz		
<b>OUTPUT IMPEDANCE</b>	270 ohms, short circuit protected		
<b>POWER REQUIREMENTS</b>	+8 to +24 VDC (bipolar output version) or +10.5 to +26.5 VDC (0-5 V output version) @ 7 mA, 250 mV ripple max., reverse polarity protected		
<b>ENVIRONMENTAL</b>	-40° to +85°C operating and storage, 0-90% humidity, noncondensing		
<b>DIMENSIONS</b>	See drawing		
<b>WEIGHT</b>	0.5 oz (15 g)		
<b>MATERIALS</b>	Liquid-filled glass sensor, fiberglass PC board		
<b>TEMPERATURE OPTION</b>	0.1°C/mV, $\pm 0.75^\circ$ C accuracy; 0°C = 0 mV (bipolar output version), 0°C = 2.5 V (0-5 V output version)		

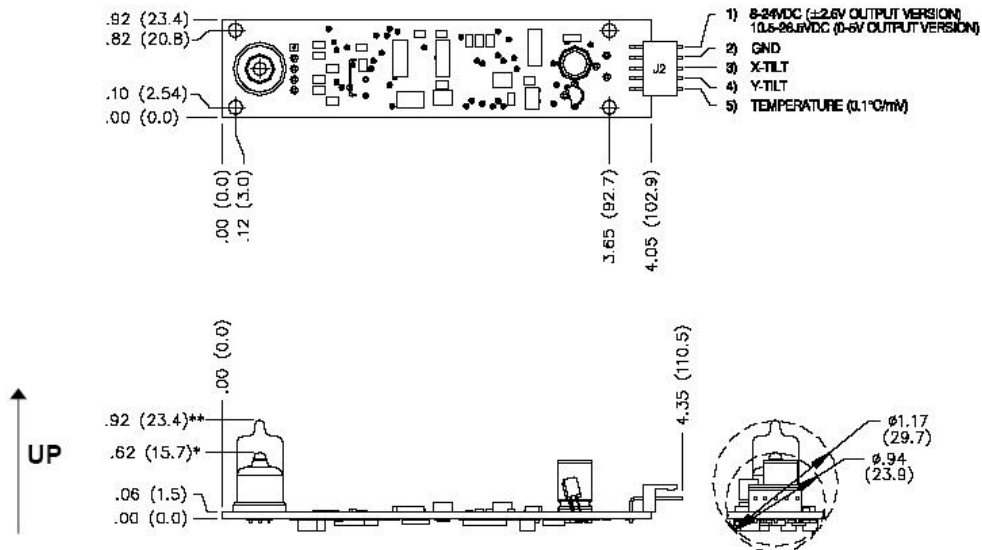
### Ordering Information

Models 901, 901-H & 901-45	Slimline horizontal, 0.92 x 4.05 inch (23 x 103 mm)
Models 901-T, 901-TH & 901-45T	Adds temperature sensor
Models 902, 902-H & 902-45	Slimline vertical, 0.92 x 4.05 inch (23 x 103 mm)
Models 902-T, 902-TH & 902-45T	Adds temperature sensor

To add the following features, specify option code after Model Number

Option Code	Feature
0-5VUP	0-5 volt output
VISCDAMP	Critically damped sensor

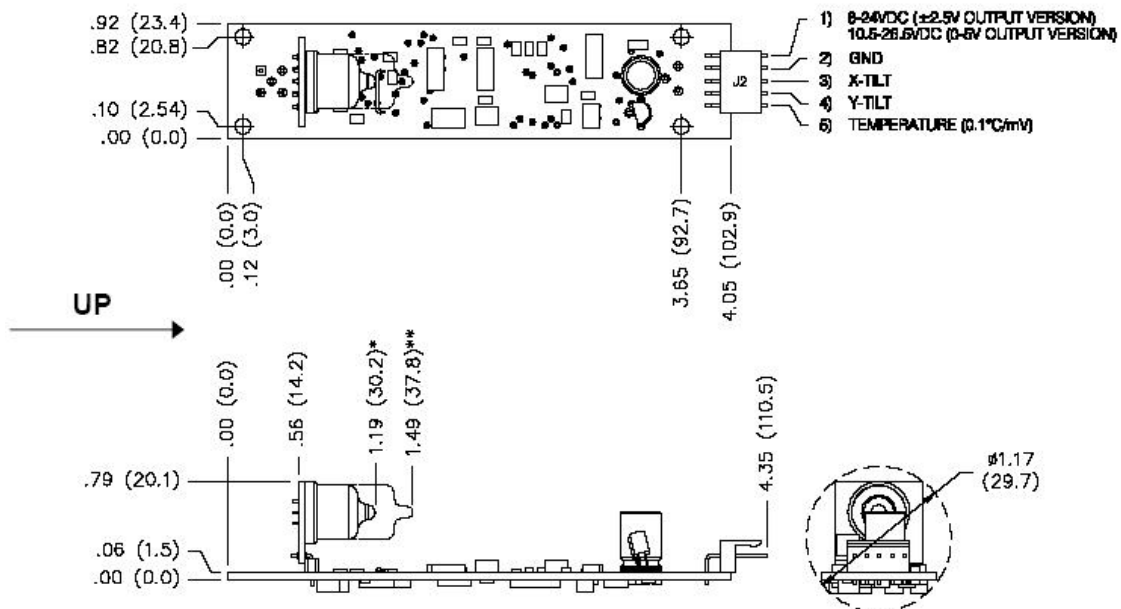
## Model 901 and 901-45 Biaxial Clinometers (horizontal mounting)



Dimensions in inches (mm)

\* MODELS 901, 901-T  
\*\* MODELS 901-45, 901-45T

## Model 902 and 902-45 Biaxial Clinometers (vertical mounting)



Dimensions in inches (mm)

\* MODELS 902, 902-T  
\*\* MODELS 902-45, 902-45T