

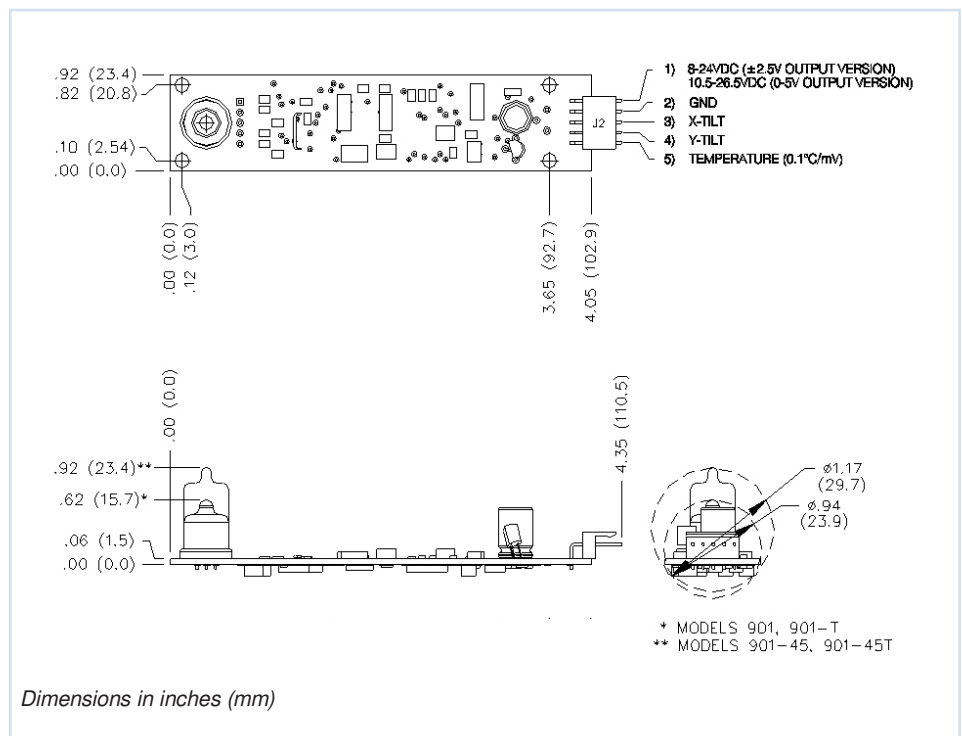
Models 901 & 902 Slimline Biaxial Clinometers

The Model 901 and 902 Biaxial Clinometers accurately measure angular position where space is limited. These conveniently sized, low-cost units fit neatly into pressure housings, well-logging tools and other

small places. The gravity-referenced Models 901 (horizontal) and 902 (vertical) mount measure rotations about two orthogonal axes and their high-level voltage outputs drive long cables.

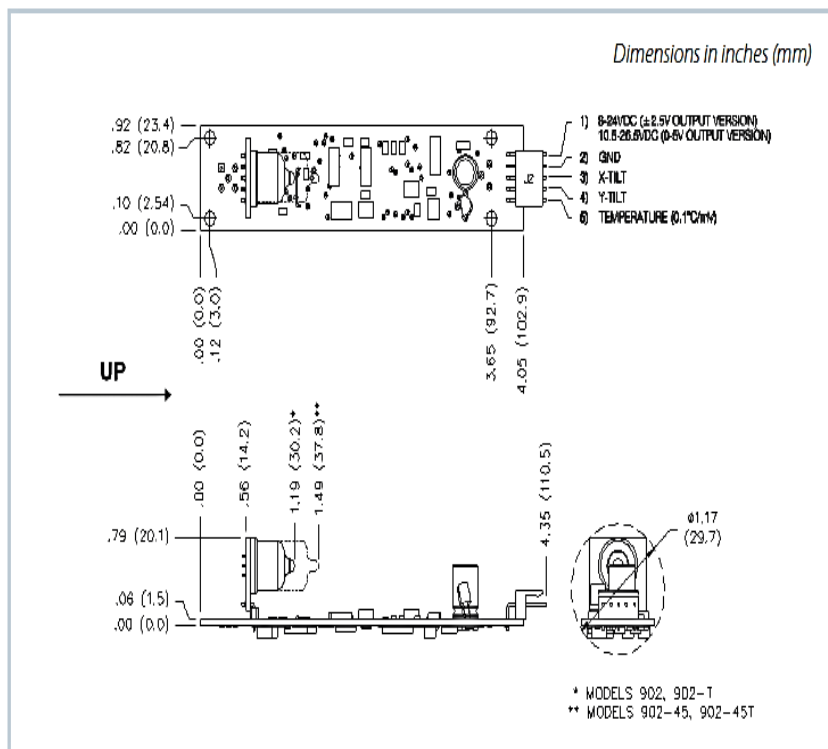


Models 901 (horizontal) and 902 (vertical) Biaxial Clinometers.



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

	MODELS 901 & 902	MODELS 901-45 & 902-45	MODELS 901-H & 902-H
OUTPUT CHANNELS	X and Y tilt, ± 2.5 VDC standard, 0-5 VDC available	X and Y tilt, ± 2 VDC standard, 0-5 VDC available	X and Y tilt, ± 2.5 VDC standard, 0-5 VDC available
ANGULAR RANGE	± 25 degrees (50 degree span)	± 50 degrees (100 degree span)	± 10 degrees (20 degree span)
SCALE FACTORS	10 degrees/V typical	25 degrees/V typical	4 degrees/V typical
LINEARITY	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
RESOLUTION	0.01 degree	0.02 degree	0.005 degree
REPEATABILITY	0.02 degree at constant temperature	0.04 degree at constant temperature	0.01 degree at constant temperature
HYSTERESIS	<0.02 degree	<0.04 degree	<0.02 degree
TEMPERATURE COEF.	Span: $+0.03\%/^{\circ}\text{C}$, Zero: 10-20 arc sec/ $^{\circ}\text{C}$ typical	Span: $+0.03\%/^{\circ}\text{C}$, Zero: 10-20 arc sec/ $^{\circ}\text{C}$ typical	Span: $+0.03\%/^{\circ}\text{C}$, Zero: 10-20 arc sec/ $^{\circ}\text{C}$ typical
TIME CONSTANT, T	150 msec; output is proportional to $1 - e^{-t/T} - 0.001e^{-t/5000T}$ where t = time in seconds		
NATURAL FREQUENCY	10 Hz		
OUTPUT IMPEDANCE	270 ohms, short circuit protected		
POWER REQ'TS.	$+8$ 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		
ENVIRONMENTAL	-40° to $+85^{\circ}\text{C}$ operating and storage, 0-90% humidity, noncondensing		
DIMENSIONS	See drawing		
WEIGHT	0.5 oz (15 g)		
MATERIALS	Liquid-filled glass sensor, fiberglass PC board		
TEMPERATURE OPTION	$0.1^{\circ}\text{C}/\text{mV}$, $\pm 0.75^{\circ}\text{C}$ accuracy; $0^{\circ}\text{C} = 0$ mV (bipolar output version), $0^{\circ}\text{C} = 2.5$ V (0-5 V output version)		



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