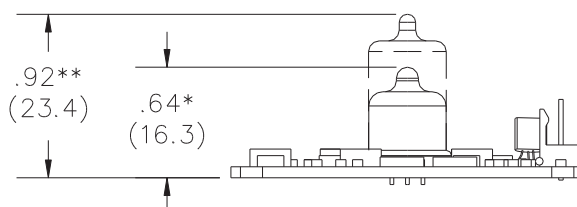
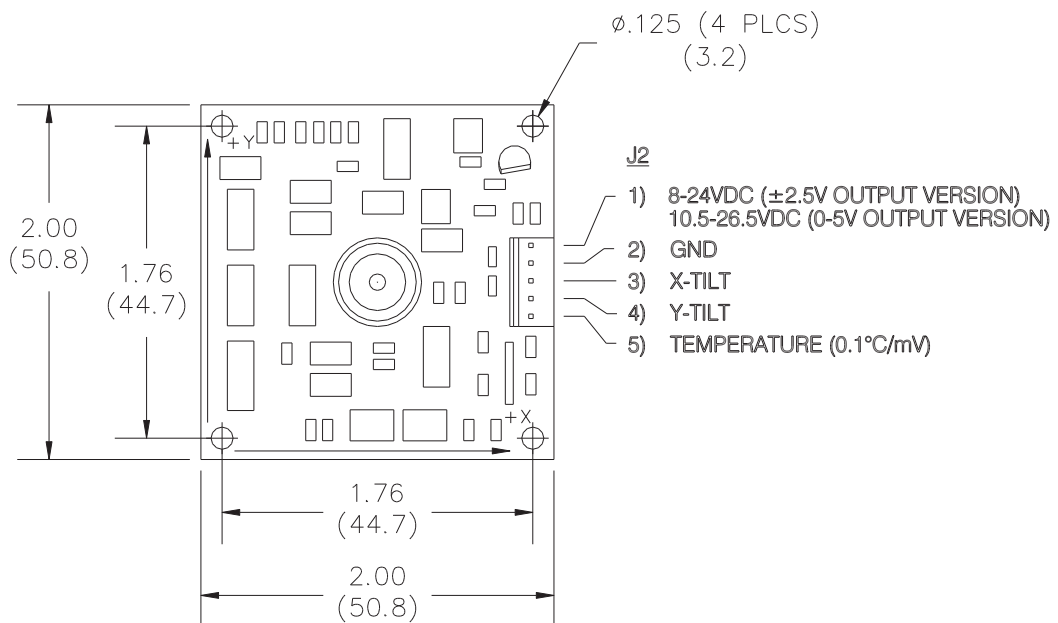
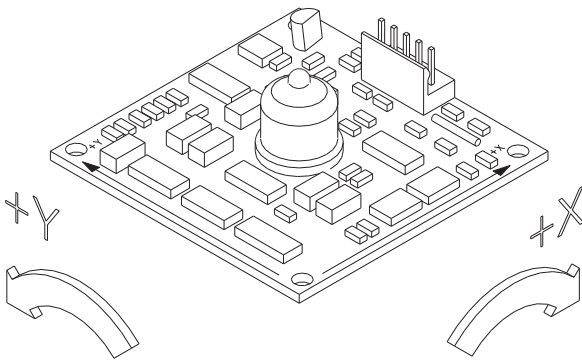


Biaxial Clinometer

Models 900, 900-H & 900-45
(no temperature sensor)

Models 900-T, 900-TH & 900-45T
(with temperature sensor)

Dimensions in inches (mm)



Dimensions in inches (mm)

- * MODELS 900, 900-T
- * MODELS 900-H, 900-HT
- ** MODELS 900-45, 900-45T

Specifications: 900-Series Biaxial Clinometers (Analog Output Versions)

	Models 900, 901, 902	Models 900-45, 901-45 902-45	Models 900-H, 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%/°C, Zero: 10-20 arc sec/°C typ.	Span: +0.03%/°C, Zero: 10-20 arc sec/°C typ.	Span: +0.03%/°C, Zero: 10-20 arc sec/°C typ.
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 REQUIREMENTS	+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°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 OUTPUT (OPTIONAL)	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 900, 900-H & 900-45	2 x 2 inch (51 x 51 mm) square, horizontal
Models 900-T, 900-TH & 900-45T	Adds temperature sensor
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 viscous sensor

All clinometers include prewired connector with 18-inch (450 mm) cable and calibration certificate with linear scale factors, look-up table and polynomial fits. Specifications subject to change without prior notice to reflect ongoing development.