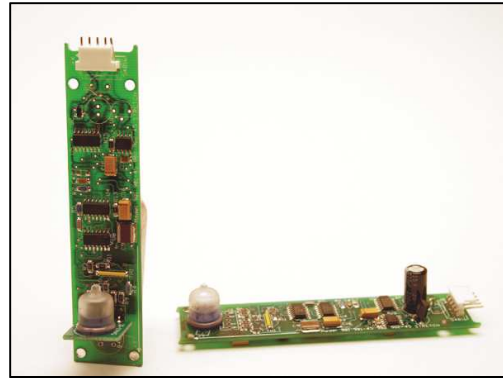


# Model A901, A902 Slimline Clinometer

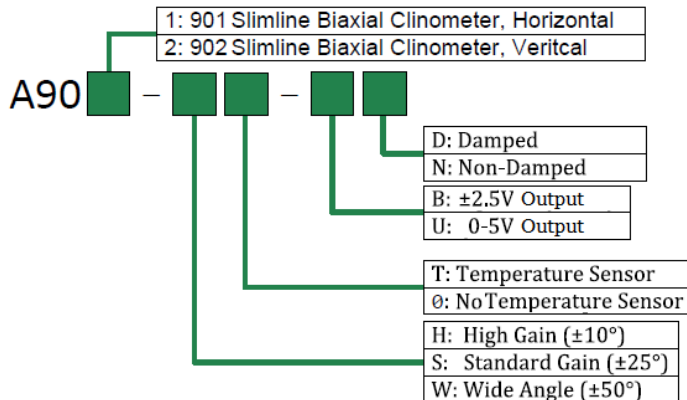
The model A901 and A902 Slimline Biaxial Clinometers delivers the same performance as our model 900, but in a slim, compact package. Units are available in horizontal (A901) or vertical (A902) mounting packages. Standard output is +/-2.5V or 0-5V DC. Units ship with 18" hook-up pigtail. Use the model A901 and A902 for industrial pitch and roll measurements, platform position and control, OEM assemblies, and specialized instrument packages where space is limited.



	High-Gain	Standard	Wide-Angle
Angular Range	+/-10	+/-25	+/-50
Resolution <sup>1</sup>	0.005	0.01	0.02
Repeatability	0.02	0.02	0.02
Scale Factor <sup>2</sup>	4/V	10/V	25/V
Non-Linearity <sup>3</sup>	1%	2.5%	7%
Output	+/-2.5 VDC or 0-5 VDC		
Channels	X-tilt, Y-tilt, Temperature		
Kz Coefficient (deg/C)	10-20 arcsec/C (typical)		
Ks Coefficient (%/C)	0.03%/C (typical)		
Time Constant	0.15 sec		
Natural Frequency	10 Hz		
Output Impedance	270 ohms, short circuit protected		
Power	+8 to +24 VDC (bipolar output); +10.5 to +26.5 VDC (0-5V output); 7mA, 250 mV ripple max, reverse polarity protected		
Environmental	-40 to +85 C operating and storage. 0-90% humidity		
Dimensions	See Drawing (page2)		
Materials	Glass electrolytic sensor, fiberglass PCB		

*\*Specifications subject to change without notice on account of continued development; <sup>1</sup>Resolution calculated at 1mV; <sup>2</sup>Linear scale factor calculated from BFSL through calibration curve; <sup>3</sup>Linearity calculated as max % deviation from BFSL. 0.05% linearity achievable using a polynomial*

### Ordering Code:

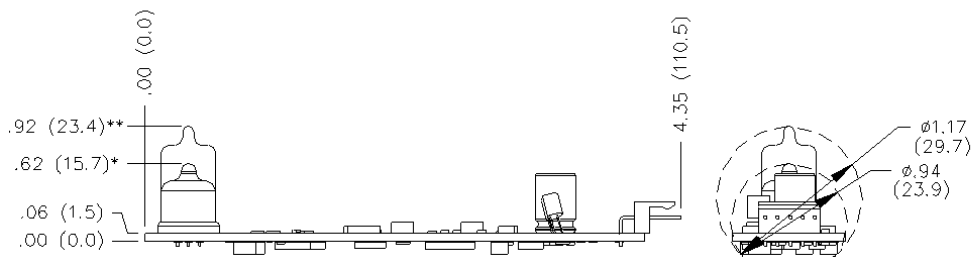
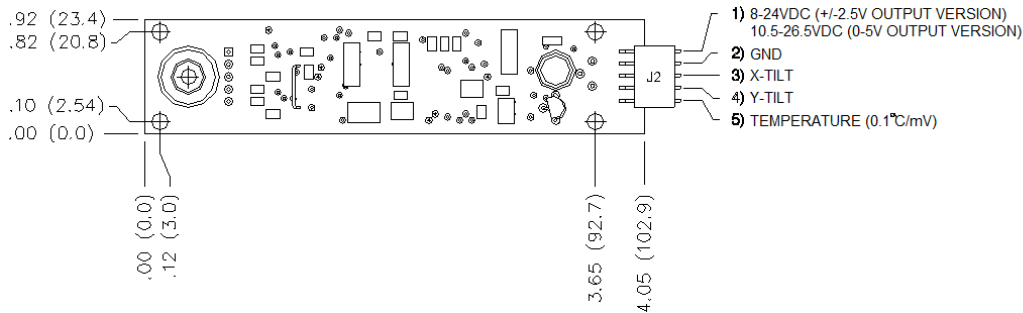


### Pin-out/Wiring:

Pin	Color	Function
1	Red	V+
2	Black	GND
3	Blue	X-Out
4	Green	Y-Out
5	Yellow	Temp Out

# Model A901, A902 Slimline Clinometer

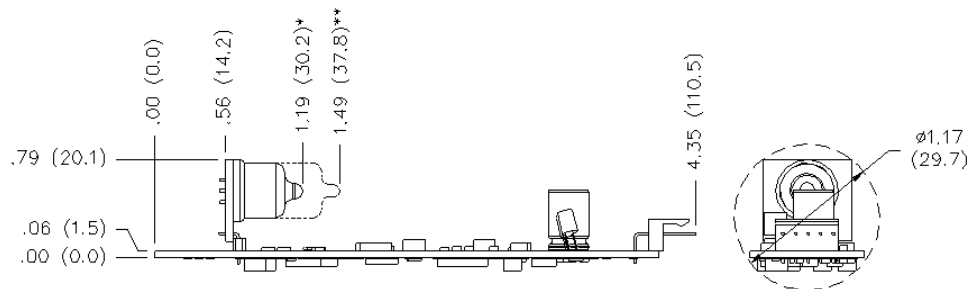
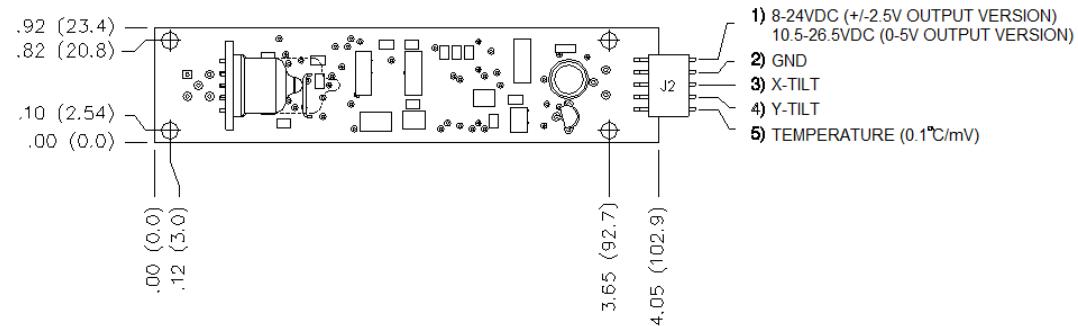
## A901, Slimline Biaxial Clinometer (Horizontal Configuration)



Dimensions in inches (mm)

\* HIGH GAIN, STANDARD OPTIONS  
\*\* WIDE-ANGLE OPTION

## A902, Slimline Biaxial Clinometer (Vertical Configuration)



Dimensions in inches (mm)

\* HIGH GAIN, STANDARD OPTIONS  
\*\* WIDE-ANGLE OPTION