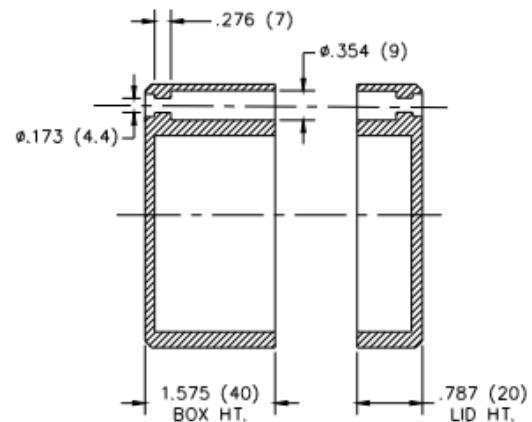
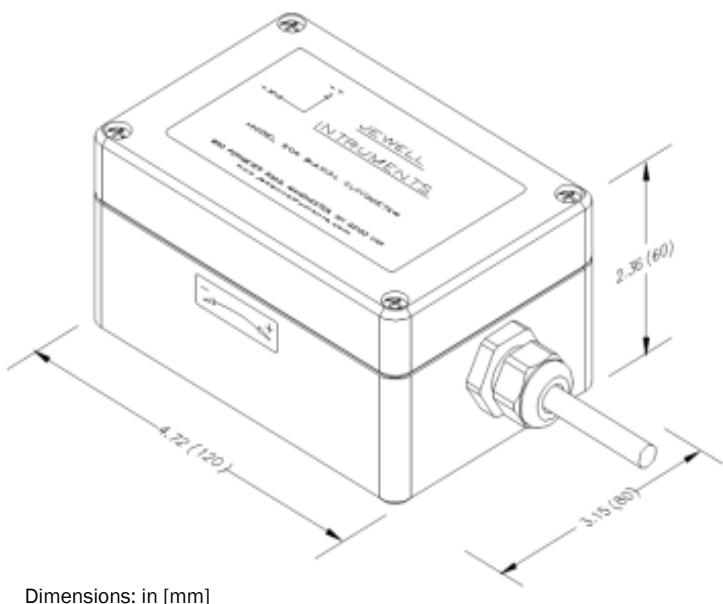
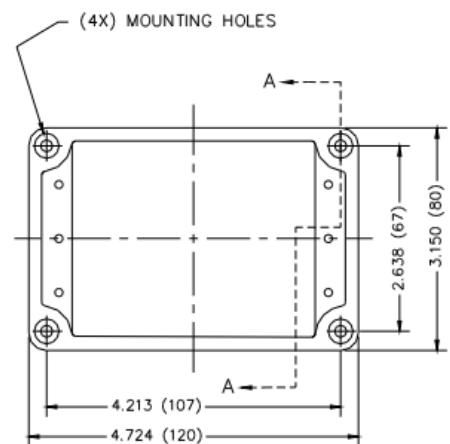


## Model A904 Clinometer Pak

The model A904 "Clinometer Pak" is a low cost biaxial inclinometer housing a rugged weatherproof enclosure. Units are available in  $\pm 2.5V$  or  $0-5V$  DC output. All A904 Clinometers are IP65 waterproof, and have powerful on-board electronics. Use the model A904 and for industrial pitch and roll measurements, platform position and control, geotechnical monitoring and more. Units come standard with 3m cable pigtail; for longer lengths please specify per order.



SECTION A-A



# PERFORMANCE SPECIFICATIONS

## PERFORMANCE

VERSION	High-Gain	Standard	Wide-Angle
ANGULAR RANGE (°)	±10°	±25°	±50°
RESOLUTION <sup>1</sup>	0.005°	0.01°	0.02°
SCALE FACTOR <sup>2</sup>	4°/V	10°/V	25°/V
NONLINEARITY (%FRO) <sup>3</sup> max	1%	2.5%	7%
NONREPEATABILITY		0.02°	
TIME CONSTANT		0.15 sec	
K <sub>z</sub> TEMP COEFFICIENT (°/C)		10 arcsec/C (typical)	
K <sub>s</sub> TEMP COEFFICIENT (%/°C)		0.03%/C (typical)	
TEMPERATURE OUTPUT		0.1°/mV, ±0.75°C accuracy; 0°C = 0 mV	
OUTPUT		±2.5 VDC or 0-5 VDC	
CHANNELS		X-tilt, Y-tilt, Temperature	

## ELECTRICAL & ENVIRONMENTAL

NUMBER OF AXES	2
OUTPUT IMPEDANCE (0hms, nominal)	270, short circuit protected
NATURAL FREQUENCY	10 Hz
POWER	+8 to +24 VDC (bipolar output); +10.5 to +26.5 VDC (0-5V output); 7mA,250 mV ripple max, reverse polarity protected
OPERATING TEMPERATURE RANGE	-40° to +80°C
STORAGE TEMPERATURE RANGE	-40° to +85°C
HUMIDITY	0 - 90%
SEAL	NEMA 4X (IP65)
DIMENSIONS	120 x 80 x 60 mm
WEIGHT	0.4 kg (1 lb.)
MATERIALS	Die-cast aluminum, painted
CABLE	10 ft (3 m) multiconductor cable with PVD jacket and tinned ends, greater lengths on request

## PIN OUT:

CONNECTOR	FUNCTION
RED	V+
BLACK	GND
GREEN	X-OUT
BLUE	Y-OUT
YELLOW	TEMP OUT

### NOTES:

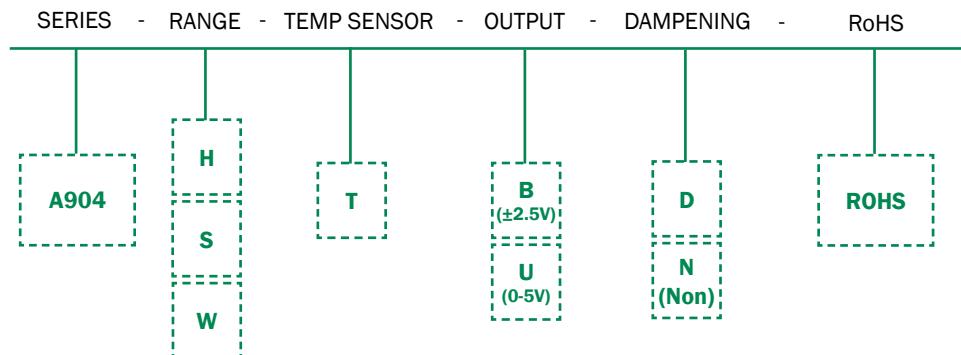
1. Resolution calculated at 1mV;
2. Linear scale factor calculated from BFSL through calibration curve;
3. Nonlinearity is specified as variation around the best straight line from null to full-range output.

Specifications are subject to change without notice due to continued product development



## ORDERING INFORMATION

**HOW TO ORDER** Model Numbers are comprised on the series, range, temp sensor, output, dampening and RoHS compliance



MODEL #	PART #
A904-HT-BN-ROHS	98904-09-ROHS
A904-HT-BD-ROHS	98904-11-ROHS
A904-HT-UN-ROHS	98904-10-ROHS
A904-HT-UD-ROHS	98904-12-ROHS
A904-ST-BN-ROHS	98904-01-ROHS
A904-ST-BD-ROHS	98904-05-ROHS
A904-ST-UN-ROHS	98904-02-ROHS
A904-ST-UD-ROHS	98904-06-ROHS
A904-WT-BN-ROHS	98904-03-ROHS
A904-WT-BD-ROHS	98904-07-ROHS
A904-WT-UN-ROHS	98904-04-ROHS
A904-WT-UD-ROI-IS	98904-08-ROHS

### Accessories:

PART #	DESCRIPTION
70369	6-conductor cable (specify required length on order)
81439	Mounting bracket for vertical surfaces
84051	Mounting plate for horizontal surfaces

850 Perimeter Road Manchester, NH 03103 USA

SENSORS: 800.227.5955

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