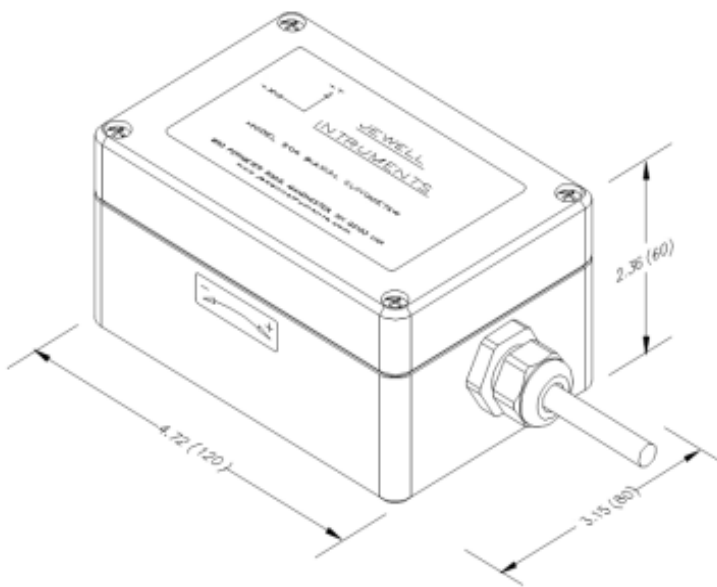
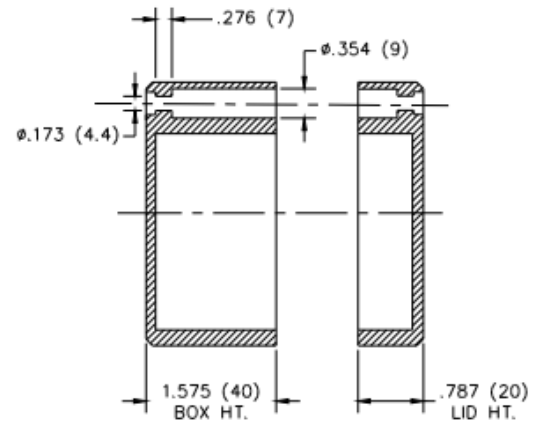


Model A904 Clinometer Pak

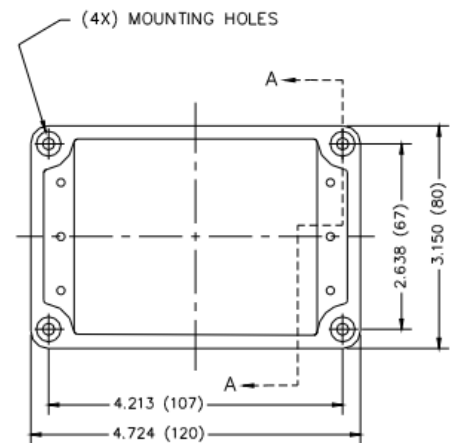
The model A904 "Clinometer Pak" is a low cost biaxial inclinometer housing a rugged weatherproof enclosure. Units are available in +/-2.5V or 0-5V DC output. All A904 Clinometers are IP65 waterproof, and have powerful on-board electronics. Use the model A904 and for industrial pitch and roll measurements,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



Dimensions: in [mm]



SECTION A-A



PERFORMANCE SPECIFICATIONS

PERFORMANCE

VERSION	High-Gain	Standard	Wide-Angle
ANGULAR RANGE (°)	±10°	±25°	±50°
RESOLUTION ¹	0.005°	0.01°	0.02°
SCALE FACTOR ²	4°/V	10°/V	25°/V
NONLINEARITY (%FRO) ³ max	1%	2.5%	7%
NONREPEATABILITY	0.02°		
TIME CONSTANT	0.15 sec		
Kz TEMP COEFFICIENT (°/C)	10 arcsec/C (typical)		
Ks 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 (Ohms, 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:

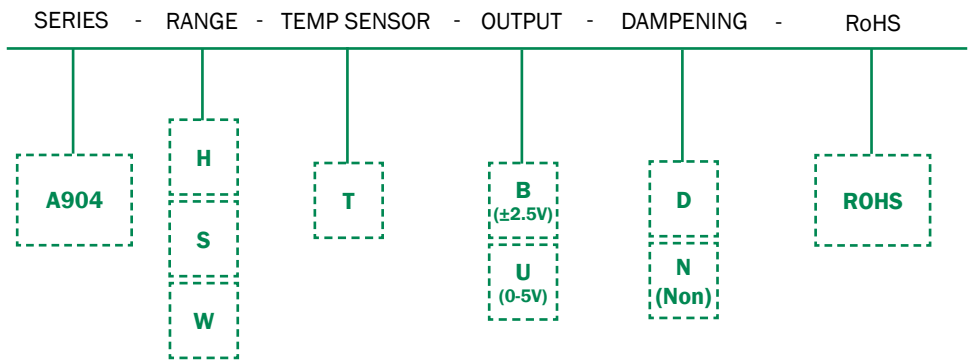
- Resolution calculated at 1mV;
- Linear scale factor calculated from BFSL through calibration curve;
- Nonlinearity is specified as variation around the best straight line from null to full-range output.

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-S	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