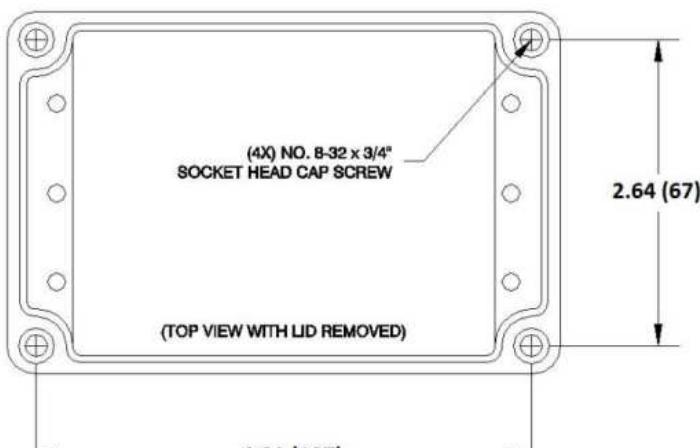


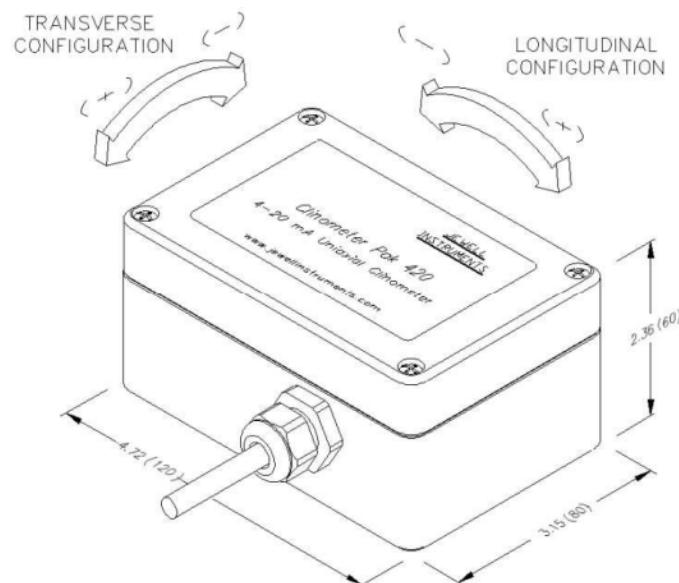
## Model C904 Clinometer Pak 420

The model C904 "Clinometer Pak 420" uniaxial clinometer delivers the same reliable performance as the A904, but with 4-20mA output. Units are available with longitudinal or transverse axis configuration. The C904 operates as a 2-wire 4-20mA current loop, and will drive signal over 1000m or more. Units also include an on-board thermistor for temperature measurement. Use the C904 with industrial PLC's, platform position and control, geotechnical monitoring, or any application where long cables are required.



INSTRUMENT MOUNTING HOLE LOCATIONS

Dimensions: in [mm]



# PERFORMANCE SPECIFICATIONS

## PERFORMANCE

VERSION	High-Gain	Standard	Wide-Angle
ANGULAR RANGE (°) <sup>1</sup>	±10°	±25°	±50°
RESOLUTION <sup>1</sup>	0.005°	0.01°	0.02°
SCALE FACTOR <sup>2</sup>	1.25°/mA	3.125°/mA	6.25°/mA
NONLINEARITY (%FRO) <sup>3</sup> max	1%	2.5%	7%
NONREPEATABILITY	0.01°	0.02°	0.04°
TIME CONSTANT	0.15 sec		
NATURAL FREQUENCY	10 Hz		
K <sub>Z</sub> TEMP COEFFICIENT (°/C)	20 arcsec/C (typical)		
K <sub>S</sub> TEMP COEFFICIENT (%/°C)	0.03%/C (typical)		
TEMP OUTPUT	Temp is measured with a 2500 Ohm thermistor, -50° to 150°C range		
OUTPUT	4-20mA, 2-wire Current Loop		
CHANNELS	Tilt, Temperature		

## ELECTRICAL & ENVIRONMENTAL

NUMBER OF AXES	1
OUTPUT IMPEDANCE (Ohms, nominal)	270, short circuit protected
INPUT CURRENT, mA:	25
POWER	(0.02 Ampere x R** + 10 VDC) < Vs < 29 VDC
OPERATING TEMPERATURE RANGE	-40° to +85°C
STORAGE TEMPERATURE RANGE	-40° to +85°C
WEIGHT	0.5 kg (1.1 lb.)
DIMENSIONS	120 x 80 x 60 mm
MATERIALS	Die-cast aluminum, painted. (Remove lid to access four mounting holes.)
SEAL	IP65
CABLE	3m (10ft), 5-conductor + one overall shield, PVC jacket, tinned ends

## PIN OUT:

CONNECTOR	FUNCTION
RED	V+
BLACK	GND
BLUE	TEMP EXCITATION
YELLOW	TEMP OUT
WHITE	TEMP RETURN

### NOTES:

1. Resolution calculated at 5 µamps;
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.

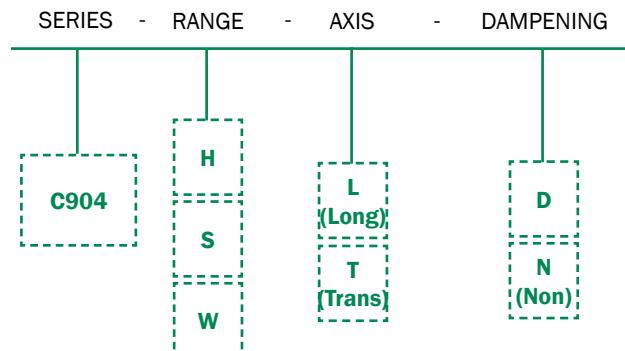
\*\* where R is the resistance of the shunt resistor and loop wiring in Ohms.

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



## ORDERING INFORMATION

**HOW TO ORDER** Model Numbers are comprised of the series, range, axis configuration and dampening



MODEL #	PART #
C904-HL-D	98016-10
C904-HL-N	98016-04
C904-HT-D	98016-07
C904-HT-N	98016-01
C904-SL-D	98016-11
C904-SL-N	98016-05
C904-ST-D	98016-08
C904-ST-N	98016-02
C904-WL-D	98016-12
C904-WL-N	98016-06
C904-WT-D	98016-09
C904-WT-N	98016-03

### Accessories:

PART #	DESCRIPTION
70369	6-conductor cable (specify required length on order)
62204	6-pin male receptacle (installed on tiltmeter cable)
62202	6-socket in-line plug (mates to P/N 62204 connector)
81439	Mounting bracket for vertical surfaces
84051	Mounting plate for horizontal surfaces

850 Perimeter Road Manchester, NH 03103 USA

SENSORS: 800.227.5955

[www.jewellinstruments.com](http://www.jewellinstruments.com) | [sensors@jewellinstruments.com](mailto:sensors@jewellinstruments.com)

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