

# Model C904 “Clinometer Pak 420”

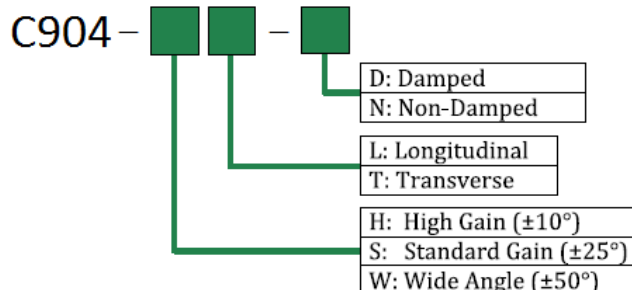
The model C904 “Clinometer Pak 420” uniaxial clinometer delivers the same reliable performance as the A904, but with 4-20mA output. Units are available with longitudinal or transverse axis configuration. The C904 operates as a 2-wire 4-20mA current loop, and will drive signal over 1000m or more. Units 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.



	High-Gain	Standard	Wide-Angle
Angular Range	±10°	±25°	±50°
Resolution	0.005°	0.01°	0.02°
Repeatability	0.01°	0.02°	0.04°
Scale Factor*	1.25°/mA	3.125°/mA	6.25°/mA
Non-Linearity	1%	2.5%	7%
Output	4-20mA, 2-wire Current Loop		
Channels	Tilt, Thermistor		
Kz Coefficient (deg/C)	10-20 arcsec/C		
Ks Coefficient (%/C)	0.03%/C		
Time Constant	0.15 sec		
Natural Frequency	10 Hz		
Power	(0.02 Ampere x R + 10 VDC) < Vs < 29 VDC		
Environmental	-40 to +85°C operation and storage. IP65		
Dimensions	120 x 80 x 60 mm, 0.5 kg (1.1 lb.)		
Materials	Diecast painted aluminum,		
Cable	3m (10ft), 5-conductor + one overall shield, PVC jacket, tinned ends		

\*Specifications subject to change without notice on account of continued development; <sup>1</sup>Resolution calculated at 5 μamps; <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:



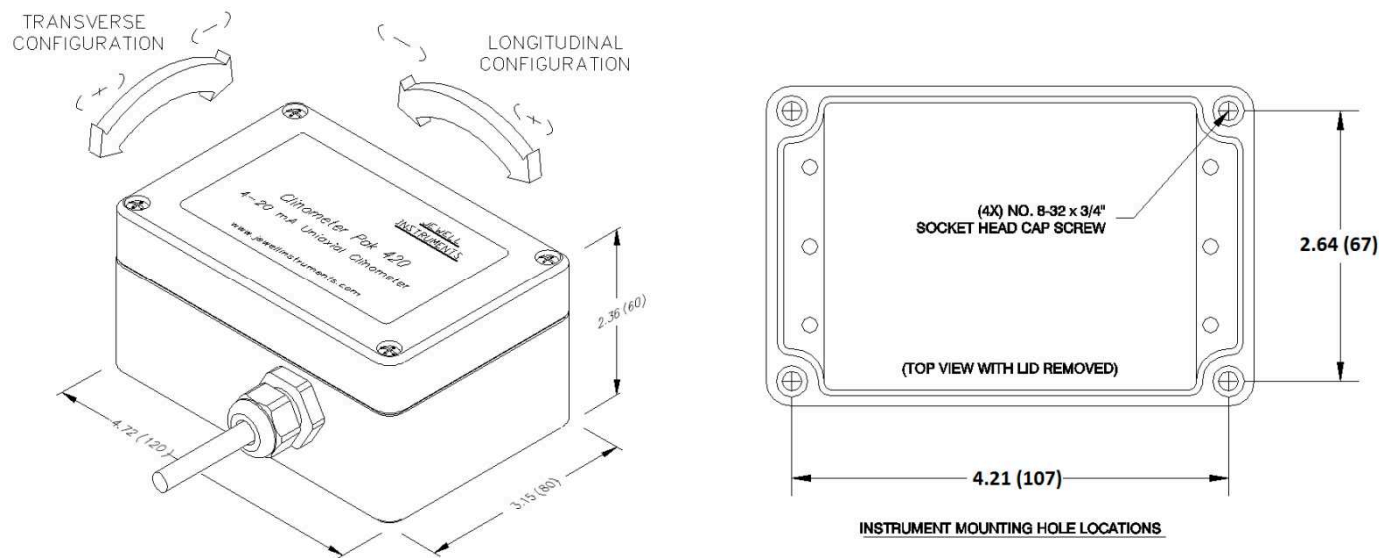
## Pin-out/Wiring:

Color	Function
Red	V+
Black	GND
Blue	Temp Excitation
Yellow/Orange	Temp Out
White	Temp Return

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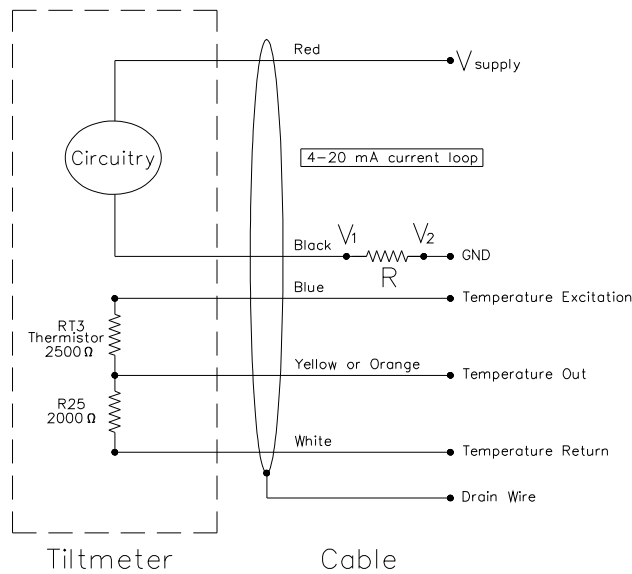


### Dimensions:



Dimensions in inches (mm)

### Circuit Diagram:



### Accessories:

Part No.	Description
81439	Mounting bracket for vertical surfaces
84051	Mounting plate for horizontal surfaces
70369	6-conductor cable (specify total length on order)
62204	Optional 6-pin male receptacle (installed on tiltmeter cable)
62202	Optional 6-socket in-line plug (mates to P/N 62204 connector)