Model A601-2A/2B High-precision Platform Tiltmeter



The model A601-2 Platform mount tiltmeter is our new micrometer adjustment design for high precision tilt measurements. Units come with built in micrometer leveling legs, for easy installation on any horizontal surface. The A601-2 also includes two switchable gains and two low-pass filter settings. Using an absolute gravity referenced electrolytic sensor, the A601-2 delivers ultra-high sensitivity to <25 nrad with virtually zero long-term drift. Output is a stable ±8 DC voltage (±16 VDC differential). Rugged, reliable, and extremely accurate, the A601-2 is the preferred choice for volcano monitoring, high-precision geotechnical engineering, bridge deflection monitoring, precision metrology, radar platform leveling, and high-accuracy tilt monitoring applications worldwide.



		Model A601-2A (High-gain)	Model A601-2B (Mid-Range)	
Angular	High-Gain:	±200 μradians (±0.0115°)	± 400 μradians (±0.0235°)	
Range	Low-Gain:	±2000 μradians (±0.115°)	± 4000 μradians (±0.235°)	
Scale Factor	High-Gain:	25 nradian/mV	50 nradian/mV	
	Low-Gain:	250 nradian/mV	500 nradian/mV	
Non-Linearity		2.0%		
Resolution		<25 nradians	<50 nradians	
Time Constant		Filter on: 7.5 sec; Filter off 0.5 sec		
Kz Temp Coefficient		±3 μradians/°C (typical)		
Ks Temp Coefficient		0.05%/°C (typical)		
Output		±8VDC (single ended); ±16VDC (differential)		
Channels		X-tilt, Y-tilt, Temperature		
Output Impedance		270 ohms		
Temperature Output		0.1°C/mV typical (single ended; 0°C = 0mV)		
Power		±11 to ±15 VDC @ +11 and -6mA, 250 mV ripple max, reverse polarity protected		
Environmental		-25 to +70°C operation; -30 to +100°C storage; IP50 Seal		
Dimensions		6 x 6 x 4 inches (15 x 15 x 10 cm), 3 lb (1.4 kg)		
Materials		Anodized and painted aluminum		

Specifications subject to change without notice on account of continued product development

Ordering Code

A601 - 2

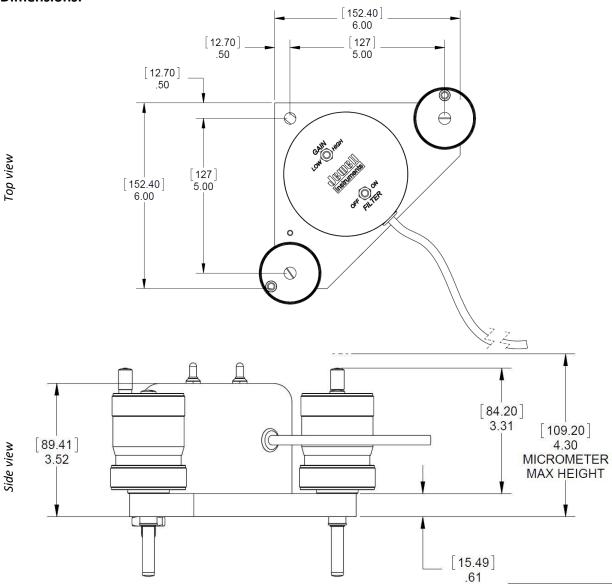
A: High Gain (±0.115°) 2 Gains, 2 Filters B: Mid Range (±0.235°) 2 Gains, 2 Filters

Accessories

Part No.	Description	
70304	Power/signal cable, 10-conductor	
70304	(specify total length on order)	
62301	Female panel receptacle (mates to	
62301	62302 connector included with tiltmeter)	
62204	Extra female in-line receptacle	
62304	(one included with tiltmeter)	







Wiring/Pin-out:

Wire Color	Function	Bendix Connector
Red	+12 to +15V Power	Н
Black	Power Ground	Α
Violet	-12 to -15V Power	В
Blue	+Y-tilt out	G
Brown	-Y-tilt out	K
Gray	-X-tilt out	J
Green	+X-tilt out	С
White	Signal ground	E
Yellow	Temperature out	D