The model A701-2 Platform mount tiltmeter is our most popular design for high precision tilt measurements. Units come with built in invar leveling legs, for easy installation on any horizontal surface. The A701-2 also includes two switchable gains and two low-pass filter settings. Using an absolute gravity referenced electrolytic sensor, the A701 delivers ultra-high sensitivity to <0.1 μ rad with virtually zero long-term drift. Output is a stable ±8 DC voltage (±16 VDC differential). Rugged, reliable, and extremely accurate, the A701-2 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.



Instruments

		Model A701-2A (High-gain)	Model A701-2B (Mid-Range)	
Linear Range	High-Gain:	+/-0.046°	±0.8°	
	Low-Gain:	±0.25°	±5.0°	
Scale Factor	High-Gain:	0.1 µradian/mV	0.1°/V	
	Low-Gain::	1 μradian/mV	1°/V	
Non-Linearity	High-Gain:	0.2%	0.2%	
	Low-Gain:	2%	1.5%	
Resolution		0.1 μradians	1.0 μradians	
Repeatability		1 μradians (static)	2 μradians (static)	
Time Constant		Filter on: 7.5 sec; Filter off 0.5 sec	Filter on: 7.5 sec; Filter off 0.4 sec	
Kz Temp Coefficient (deg/C)		±3 µradians/°C (typical)	±0.001°/°C (typical)	
Ks Temp Coefficient (%/°C)		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		
Dimensions		6 x 6 x 4 inches (15 x 15 x 10 cm), 3 lb (1.4 kg)		
Materials		Anodized and painted aluminum		
Cable		3m (10 ft) multiconductor cable + overall shield, PVC jacket, connectors included		

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

Ordering Code

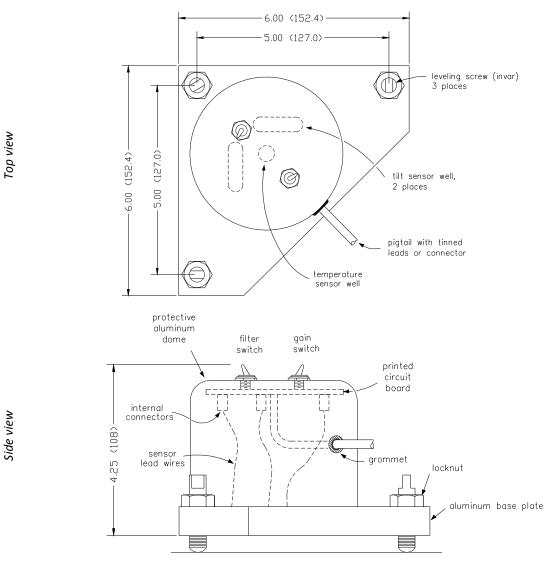
A701-2	
	A: High Gain (±0.25°) 2 Gains, 2 Filters
	B: Mid Range (±5°) 2 Gains, 2 Filters

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)	



Dimensions:



Wiring/Pin-out:

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