



Model 711-2, 716-2

The model 711-2 (floor-mount), and 716-2 (wall-mount) bolt or clamp to any surface, and are well suited for areas with heavy traffic or vibration. Electronic performance is identical to the model 701-2. Units include two switchable gains and two low-pass filter settings, and are sensitive to <0.1 urad. Output is a stable ±8 DC voltage (±16 VDC differential).



Applications include volcano monitoring, high-precision geotechnical engineering, bridge deflection monitoring, precision metrology, radar platform leveling, and high-accuracy tilt monitoring applications where bolt-on installations are required.

Specification

		Type-A version (High-Gain)	Type-B version (Mid-Range)	
Angular Range	High-Gain: Low-Gain:	±800 μradians (+/-0.046°) ±8000 μradians (+/-0.46°)	±0.8° ±8.0°	
Scale Factor	High-Gain: Low-Gain:	±0.1 μradian/mV 1 μradian/mV	0.1°/V 1°/V	
Non-Linearity	High-Gain: Low-Gain:	0.2% 2%	0.2% 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) multi-conductor cable + overall shield, PVC jacket, connectors included		

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

Order Code

A: High Gain (±0.46°) 2 Gains, 2 Filters

B: Mid Range (±8°) 2 Gains, 2 Filters

Wall-mount Version

A: High Gain (±0.46°) 2 Gains, 2 Filters

B: Mid Range (±8°) 2 Gains, 2 Filters

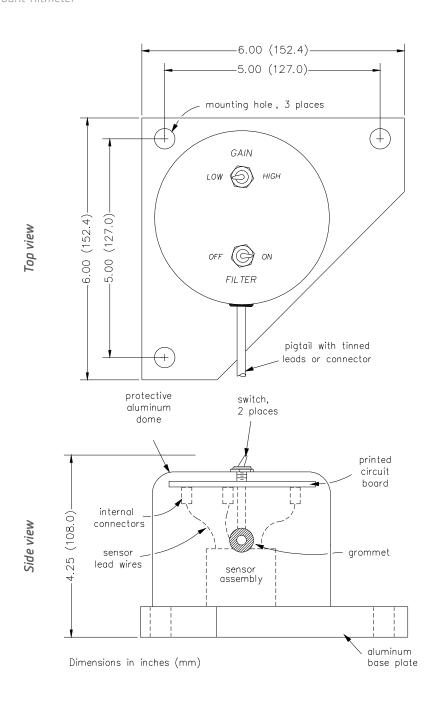
B: Mid Range (±8°) 2 Gains, 2 Filters

Accessories

Part No.	Description		
70304	Power/signal cable, 10-conductor (specify total length on order)		
62301	Female panel receptacle (mates to 62302 tiltmeter connector)		
62304	Extra female in-line receptacle (one included with tiltmeter)		
719-AL	Vertical mounting bracket (L-bracket)		
718-AL	Mounting plate (speeds installation)		



Dimensions



Wiring/Pin-out:

1111 6 1	- "	2 11 2 1
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	K
Gray	-X-tilt out	J
Green	+X-tilt out	С
White	Signal ground	E
Yellow	Temperature out	D

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