Model A711-2, A716-2

Floor-mount & Wall-mount Tiltmeter



The model A711-2 (floor-mount), and A716-2 (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 A701-2. 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.



		Type-A version (High-gain)	Type-B version (Mid-Range)		
Linear Range	High-Gain:	+/-0.046°	±0.8°		
	Low-Gain:	±0.46°	±8.0°		
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) multi-conductor cable + overall shield, PVC jacket, connectors included			
Specifications subject to change without notice on assount of continued product development					

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Order Code:

Floor-mount Version

A711 – 2

A: High Gain 2 Gains, 2 Filters B: Mid Range 2 Gains, 2 Filters

Wall-mount Version

A716 – 2

A: High Gain 2 Gains, 2 Filters B: Mid Range 2 Gains, 2 Filters

Accessories:

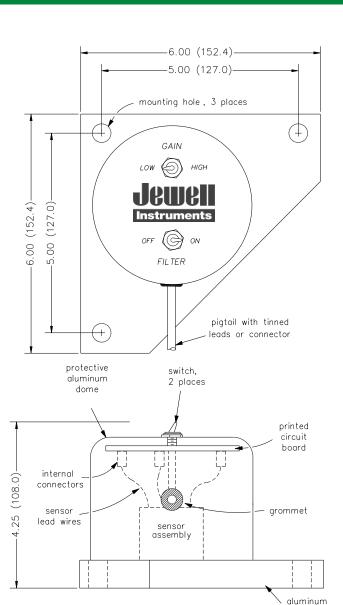
Part No.	Description
70304	Power/signal cable, 10-conductor (specify total length on order)
62301	Female panel receptacle (one included with tiltmeter)
62304	Female in-line receptacle (mates to 62302 tiltmeter connector)
719-AL	Vertical mounting bracket (L-bracket)
718-AL	Mounting plate (speeds installation)



Dimensions:

Top view

Side view



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	K
Gray	-X-tilt out	J
Green	+X-tilt out	С
White	Signal ground	E
Yellow	Temperature out	D

base plate

Dimensions in inches (mm)