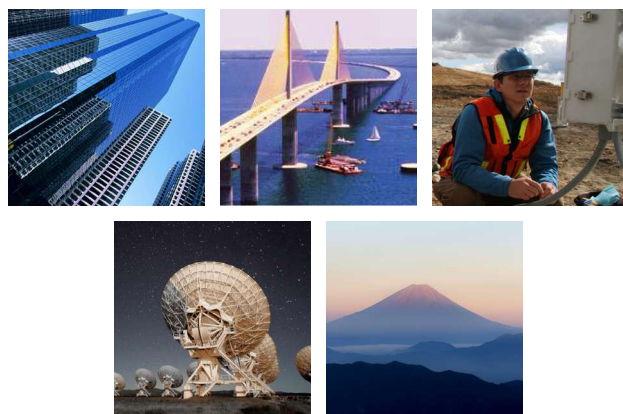
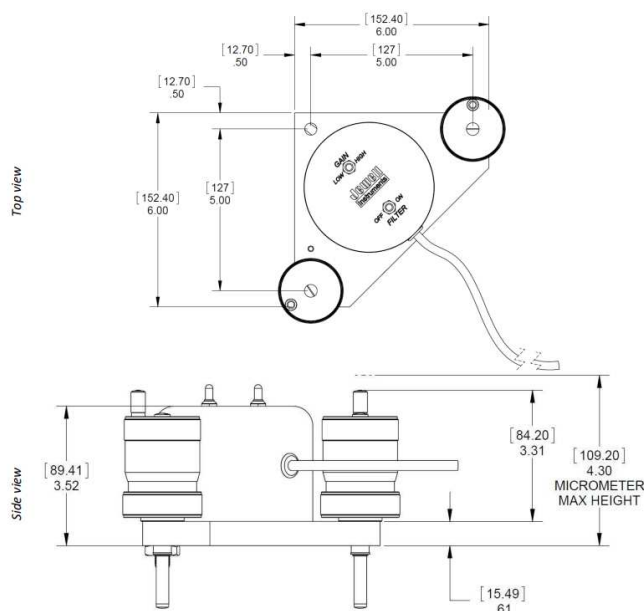


A601-2A/2B

High-Precision Platform Inclinometer

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.



APPLICATIONS:

- Volcano monitoring
- Geotechnical engineering
- Bridge deflection monitoring
- Precision metrology
- Radar platform leveling

PERFORMANCE SPECIFICATIONS

PERFORMANCE

VERSION		A601-2A (High-Gain)	A601-2B (Mid-Range)
ANGULAR RANGE (°) ¹	HIGH-GAIN:	±200 μradians (±0.0115°)	± 400 μradians (±0.0235°)
	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
NONREPEATABILITY (° max)		<0.0002°	0.001°
NONLINEARITY (%FRO) ² max		±2.0	
RESOLUTION		<25 nradians	<50 nradians
TIME CONSTANT		Filter on: 7.5 sec; Filter off 0.5 sec	
K _Z TEMP COEFFICIENT (°/°C)		±3 μradians/°C (typical)	
K _S TEMP COEFFICIENT (%/°C)		0.05%/°C (typical)	
OUTPUT		±8VDC (single ended); ±16VDC (differential)	
CHANNELS		X-tilt, Y-tilt, Temperature	

ELECTRICAL & ENVIRONMENTAL

NUMBER OF AXES	2
OUTPUT IMPEDANCE (Ohms, nominal)	270
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
OPERATING TEMPERATURE RANGE	-25° to +70°C
STORAGE TEMPERATURE RANGE	-30° to +100°C
WEIGHT	3 lb (1.4 kg)
MATERIALS	Anodized and painted aluminum
SEAL	IP50

PIN OUT:

CONNECTOR	FUNCTION
RED	+12 TO +15V PWR
BLACK	PWR GND
VIOLET	-12 TO -15V POWER
BLUE	+Y-TILT OUT
BROWN	-Y-TILT OUT
GRAY	-X-TILT OUT
GREEN	+X-TILT OUT
WHITE	SIG GND
YELLOW	TEMP OUT

NOTES:

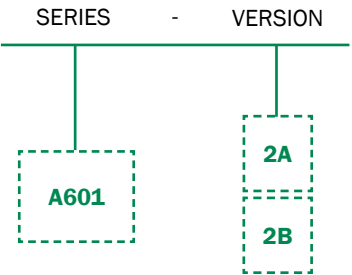
1. Custom ranges available on request
2. Nonlinearity is specified as deviation of output referenced to theoretical sine function value, independent of misalignment

Specifications are subject to change without notice due to continued product development



ORDERING INFORMATION

HOW TO ORDER Model Numbers are comprised of the series, the number of axes, and the angular range.



MODEL #	PART #
A601-2A	98601-01
A601-2B	98601-02

Accessories:

PART #	DESCRIPTION
70304	Power/Signal Cable, 10-Conductor, 24 AWG, Polypropylene Jacket: 500, 700, & 800 Series Dual Axis Tiltmeters, price/ft.
62301	Female Panel Receptacle (Mates to PN: 62302 Connector which is included with the tiltmeter)
62304	Extra Female In-line Receptacle (Which is included with the tiltmeter).

850 Perimeter Road Manchester, NH 03103 USA

SENSORS: 800.227.5955
www.jewellinstruments.com | sensors@jewellinstruments.com

© Jewell Instruments 2020

