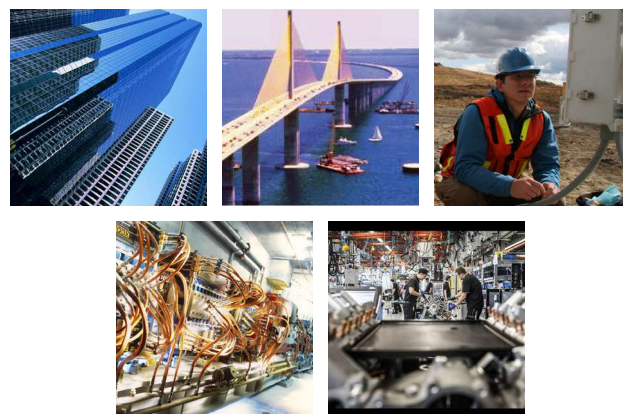
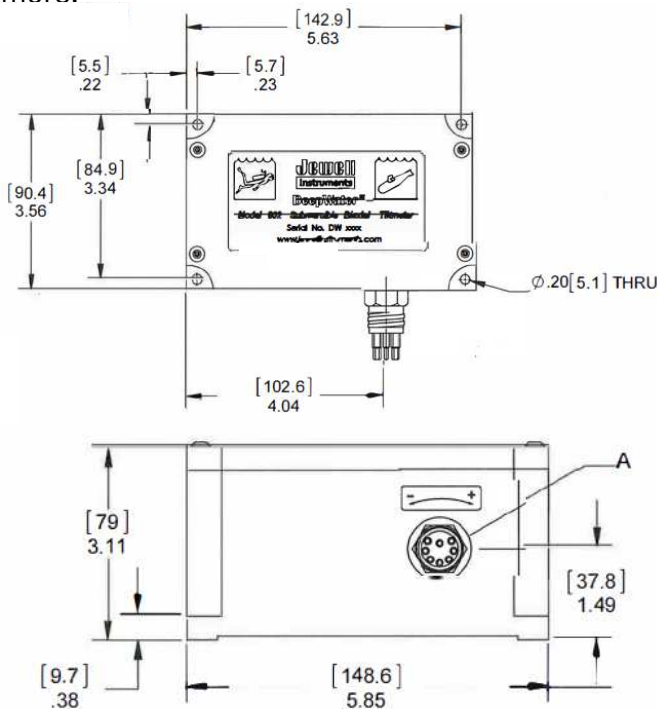


## Model A802

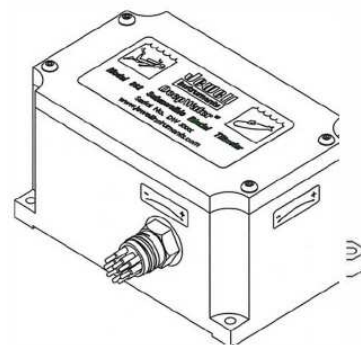
### “DeepWater” Analog Tiltmeter

The model A802 Deepwater is a high-precision submersible tiltmeter for use in marine, offshore, and deep ocean applications. Using an absolute gravity referenced electrolytic sensor, the A802 delivers superior measurement accuracy with nearly no long-term drift. High-gain units are sensitive to  $<0.0017$  mm/m or better. Output is a stable  $\pm 5$  DC voltage ( $\pm 10$  VDC differential), which can be read with any VDC input data recorder. All units are rated to +2500m waterproof for advanced protection from the elements. Use the A802 “Deepwater” for structural monitoring, angle measurement and control, platform leveling, and more.



#### APPLICATIONS:

- Structural Monitoring
- Platform Leveling
- Industrial Measurement & Control



# PERFORMANCE SPECIFICATIONS

## PERFORMANCE

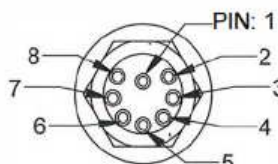
ANGULAR RANGE (°) <sup>1</sup>	±0.5°	±3°	±50°
RESOLUTION	<0.0001°	0.0006°	0.01°
NONREPEATABILITY (° max)	<0.0002°	0.001°	0.02°
NONLINEARITY (%FRO) <sup>2</sup> max	1	2	0.5
SCALE FACTOR	0.1°/V	0.6°/V	10°/V
TIME CONSTANT	1.75 sec (2-pole Butterworth low-pass filter)		0.15 sec
K <sub>z</sub> TEMP COEFFICIENT (°/°C)	±0.0002 arcsec/°C (typical)		±0.002 arcsec/°C (typical)
K <sub>s</sub> TEMP COEFFICIENT (%/°C)	0.04%/°C (typical)		
OUTPUT	±5VDC (single ended); ±10VDC (differential)		
CHANNELS	Tilt, Temperature		

## ELECTRICAL & ENVIRONMENTAL

NUMBER OF AXES	1 or 2
OUTPUT IMPEDANCE (Ohms, nominal)	270
TEMPERATURE OUTPUT	0.1°C/mV typical (single ended; 0°C = 0mV)
POWER	8-18 VDC @ 8mA, 250 mV ripple max, reverse polarity protected
OPERATING TEMPERATURE RANGE	-4° to +60°C
STORAGE TEMPERATURE RANGE	-30° to +100°C
WEIGHT	5 kg (11 lb.)
MATERIALS	316 SS (6AL-4V Titanium also available)
SEAL	IP68
CABLE	6-conductors, two-types available: 1) Neoprene, 20 AWG, no shield or 2) PVCjacketed, polypropylene-insulation, 24 AWG, shielded. Order cable separately.

## PIN OUT:

CONNECTOR	FUNCTION
3	12V
1	PWR GND
2	SIG GND
4	X+
6	X-
7	Y+
8	Y-
5	TEMP



## NOTES:

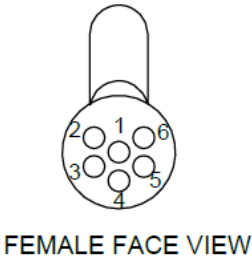
1. Custom ranges available on request
2. Nonlinearity is specified as variation around the best straight line from null to full-range output.

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



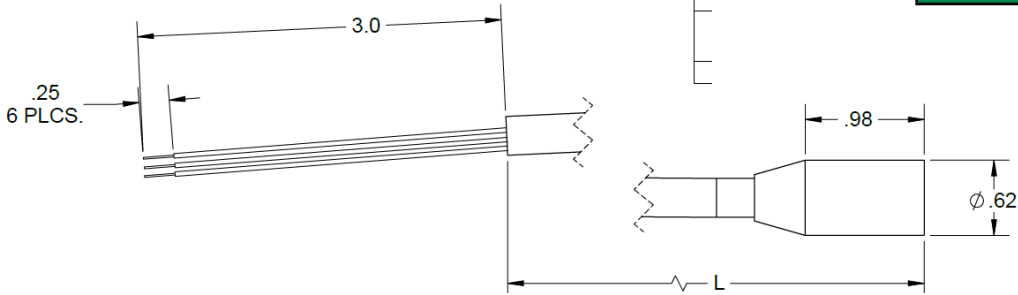
# ACCESSORIES

PART #	DESCRIPTION
00359	Delrin Locking Sleeve (locks 00358 in-line connector to Male bulkhead)
00358-15M	15m 6-socket Female in-line connector, Neoprene, (bare wire leads). PN 00359 included.
00358-20M	20m 6-socket Female in-line connector, Neoprene, (bare wire leads). PN 00359 included.
00358-25M	25m 6-socket Female in-line connector, Neoprene, (bare wire leads). PN 00359 included.



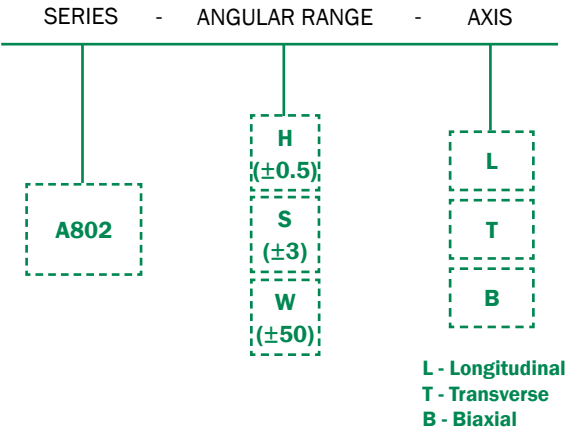
## IN-LINE CABLE COLOR CODE

WIRE COLOR	
BLACK	1
WHITE	2
RED	3
GREEN	4
ORANGE	5
BLUE	6



# ORDERING INFORMATION

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



	MODEL #	PART #
±0.5	A802-HL	98802-04-ROHS
	A802-HT	98802-01-ROHS
	A802-HB	98802-07-ROHS
±3	A802-SL	98802-05-ROHS
	A802-ST	98802-02-ROHS
	A802-SB	98802-08-ROHS
±50	A802-WL	98802-06-RORS
	A802-WT	98802-03-ROHS
	A802-WB	98802-09-ROHS

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