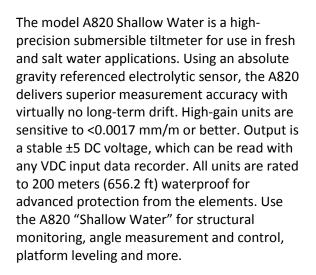
## Model A820 Shallow Water Analog Tiltmeter



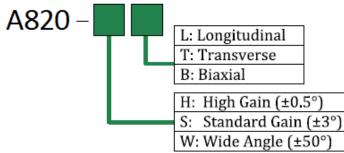


Instruments

	High-Gain	Standard	Wide-Angle
Angular Range	±0.5°	±3.0°	±50°
Resolution	<0.0001°	0.0006°	0.01°
Repeatability	<0.0002°	0.001°	0.02°
Non-Linearity	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
Kz Temp Coefficient	±0.0002 °/°C (typical)		±0.002 °/°C (typical)
Ks Temp Coefficient	0.04%/°C (typical)		<0.1 %/°C (typical)
Output	±5VDC (single ended)		
Channels	Tilt, Temperature		
Output Impedance	270 ohms		
Temperature Output	0.1°C/mV typical (single ended; 0°C = 0mV)		
Power	8-18 VDC @ 8mA, 250 mV ripple max, reverse polarity protected		
Environmental	-4 to +60° C operation; -30 to +100° C storage. Submersible to 200 meters (656.2 ft)		
Mounting	Two no. 10 stainless steel mounting screws.		
<b>Dimensions &amp; Weight</b>	92.1 x 112.4 x 61 mm; 1.6 kg		
Materials	316 SS		
Housing Connector	6-pin bulkhead, male plug		
Mating Cable	6-conductor unshielded, 20AWG female receptacle with locking sleeve, neoprene jacket, 24"		

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

#### How to Order:



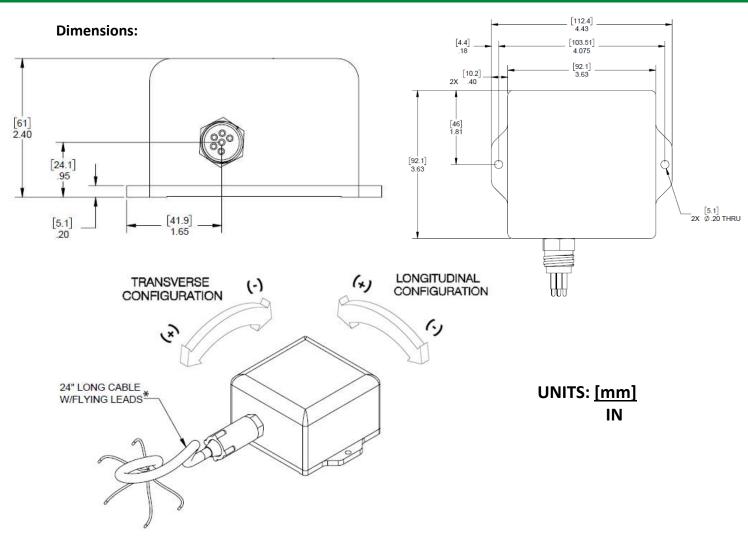
#### Wiring/Pin-out:

Pin	Wire Color	Function	
1	Black	Power Ground	
2	White	Signal Ground	
3	Red	Power	
4	Green	X - Tilt	
5	Orange	Temperature	
6	Blue	Y – Tilt	

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# Model A820 Shallow Water Analog Tiltmeter





\*Custom cable lengths available on request

### **Part Numbers:**

Part Number	Model Long Description
98823-01	A820-HB, ±0.5° Shallow Water, High Gain, Biaxial Analog Tiltmeter
98823-02	A820-SB, ±3° Shallow Water, Standard-Angle, Biaxial Analog Tiltmeter
98823-03	A820-WB, ±50° Shallow Water, Wide-Angle, Biaxial Analog Tiltmeter
98823-04	A820-HT, ±0.5° Shallow Water, High Gain, Transverse (Uniaxial) Analog Tiltmeter
98823-05	A820-ST, ±3° Shallow Water, Standard-Angle, Transverse (Uniaxial) Analog Tiltmeter
98823-06	A820-WT, ±50° Shallow Water, Wide-Angle, Transverse (Uniaxial) Analog Tiltmeter
98823-07	A820-HL, ±0.5° Shallow Water, High Gain, Longitudinal (Uniaxial) Analog Tiltmeter
98823-08	A820-SL, ±3° Shallow Water, Standard-Angle, Longitudinal (Uniaxial) Analog Tiltmeter
98823-09	A820-WL, ±50° Shallow Water, Wide-Angle, Longitudinal (Uniaxial) Analog Tiltmeter

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