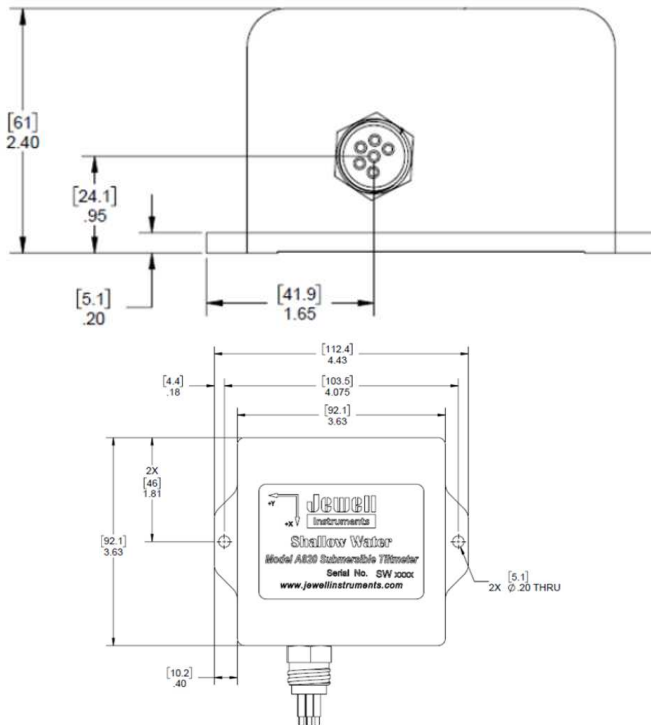


Model C820 Shallow Water Analog Tiltmeter

The model C820 Shallow Water is a high-precision submersible tiltmeter for use in fresh and salt water applications with 4-20mA output. Using an absolute gravity referenced electrolytic sensor, the C820 delivers superior measurement accuracy with nearly no long-term drift. High-gain units are sensitive to <0.0017 mm/m or better. All units are rated to 200 meters (656.2 ft) waterproof for advanced protection from the elements. Use the C820 "Shallow Water" for structural monitoring, angle measurement and control, platform leveling, and more.

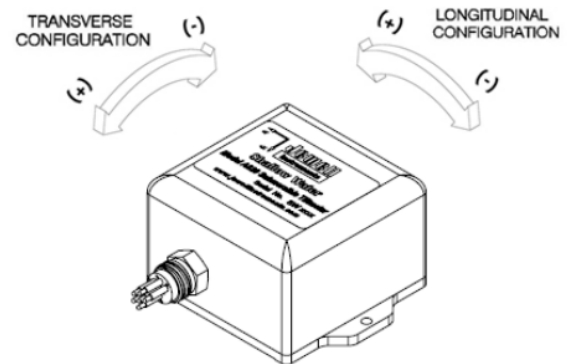


Dimensions: in [mm]



APPLICATIONS:

- Off-shore Floating Rigs
- Dam Monitoring
- Bridge Monitoring
- Underwater Tilt Measurements





PERFORMANCE SPECIFICATIONS

PERFORMANCE	High-Gain	Standard	Wide-Angle
ANGULAR RANGE (°) ¹	±0.5°	±3°	±50°
RESOLUTION	<0.0001°	0.0006°	0.01°
NONREPEATABILITY (° max)	<0.0002°	0.001°	0.02°
NONLINEARITY (%FRO) ² max	1%	2%	0.5%
SCALE FACTOR (°/mA)	0.0625	0.375	6.25
TIME CONSTANT (sec)	0.15		
Kz TEMP COEFFICIENT (°/°C)	±0.0002		±0.002
Ks TEMP COEFFICIENT (%/°C)	<0.04		<0.1
OUTPUT	4-20mA Two-wire current loop (per axis)		
CHANNELS	Tilt, Temperature		

ELECTRICAL & ENVIRONMENTAL

NUMBER OF AXES	1 or 2
OUTPUT IMPEDANCE (Ohms, nominal)	270
TEMPERATURE OUTPUT	Temperature is measured with a 2500 Ohm thermistor, -50° to 150°C range
POWER	(0.02 Ampere x R + 10 VDC) < Vs < 29 VDC
OPERATING TEMPERATURE RANGE	-4° to +60°C
STORAGE TEMPERATURE RANGE	-30° to +100°C
WEIGHT	1.6 kg
MATERIALS	316 SS (6AL-4V Titanium also available)
SEAL	Submersible to 200 meters (656.2 ft)
CABLE	6-conductor unshielded, 20AWG female receptacle with locking sleeve, neoprene jacket. Charged separately. Specify cable length per unit on order

PIN OUT:

WIRE COLOR	FUNCTION
BLACK	X RETURN
WHITE	Y RETURN
RED	X PWR
GREEN	Y PWR
ORANGE	TEMP RTRN
BLUE	TEMP EX.

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



ACCESSORIES

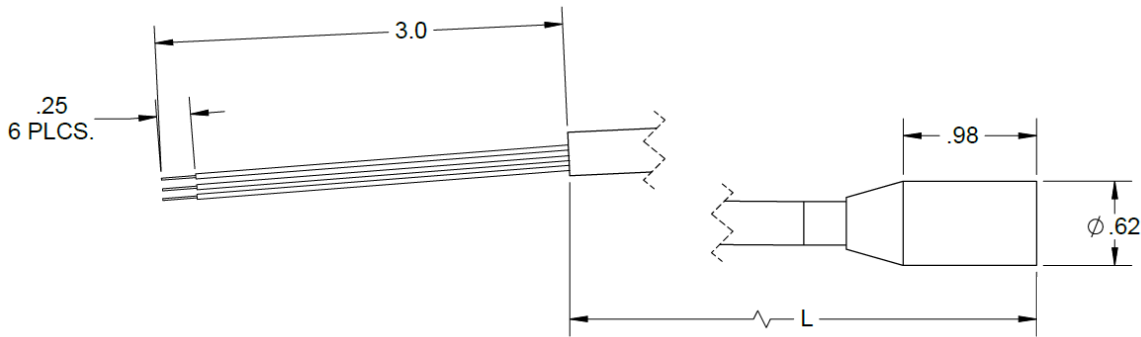
PART #	DESCRIPTION
00359	Delrin Locking Sleeve (locks 00358 in-line connector to Male bulkhead)
00358-15M	15m 6-socket Female in-line connector, Neoprene, (bare wire leads). PN 00359 included.
00358-20M	20m 6-socket Female in-line connector, Neoprene, (bare wire leads). PN 00359 included.
00358-25M	25m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



FEMALE FACE VIEW

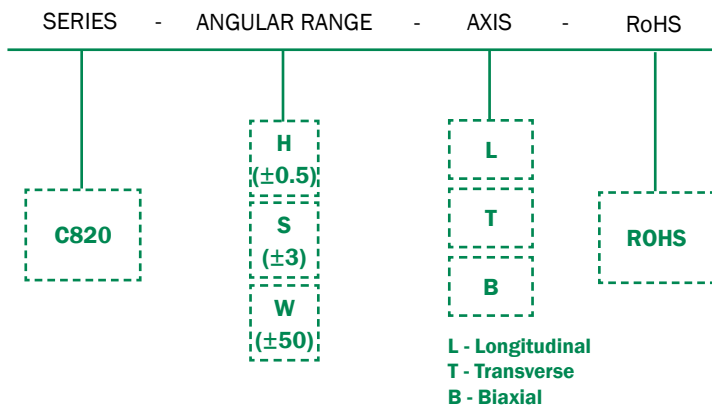
IN-LINE CABLE COLOR CODE

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 number of axes, and the angular range.



	MODEL #	PART #
±0.5	C820-HL-ROHS	98820-07-ROHS
	C820-HT-ROHS	98820-04-ROHS
	C820-HB-ROHS	98820-01-ROHS
±3	C820-SL-ROHS	98820-08-ROHS
	C820-ST-ROHS	98820-05-ROHS
	C820-SB-ROHS	98820-02-RO HS
±50	C820-WL-ROHS	98820-09-ROHS
	C820-WT-ROHS	98820-06-ROHS
	C820-WB-ROHS	98820-03-ROHS