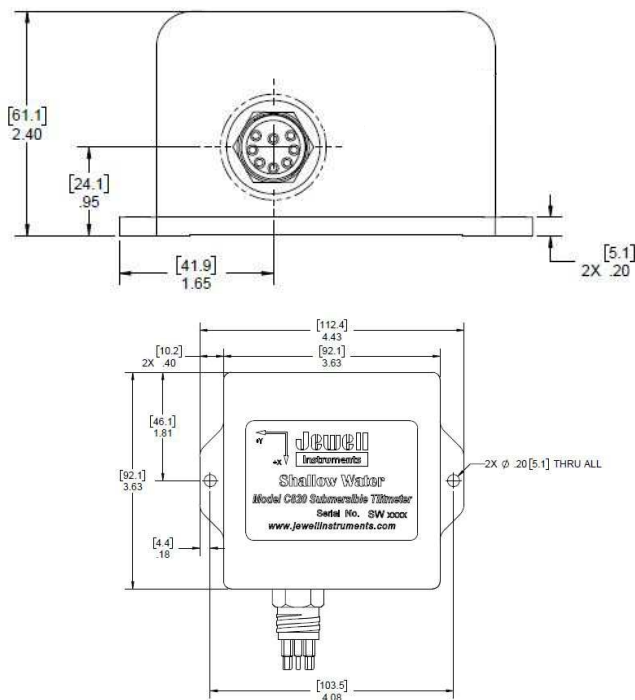


Model C820

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.

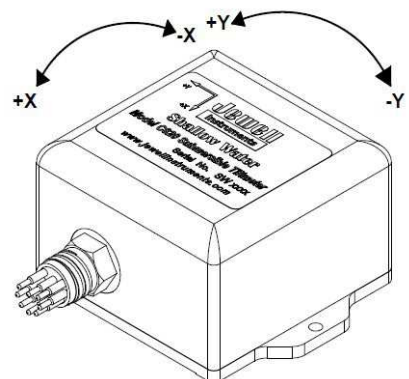


Dimensions: in [mm]



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		
K _Z TEMP COEFFICIENT (°/°C)	±0.0002		±0.002
K _S 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:

Pin	FUNCTION
1	X RETURN
2	Y RETURN
3	X PWR
4	Y PWR
5	TEMP RTRN
6	TEMP EX.
7	N/C
8	N/C

NOTES:

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

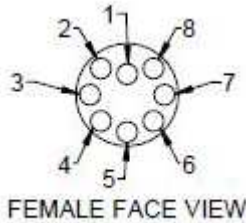
Specifications are subject to change without notice due to continued product development



ACCESSORIES

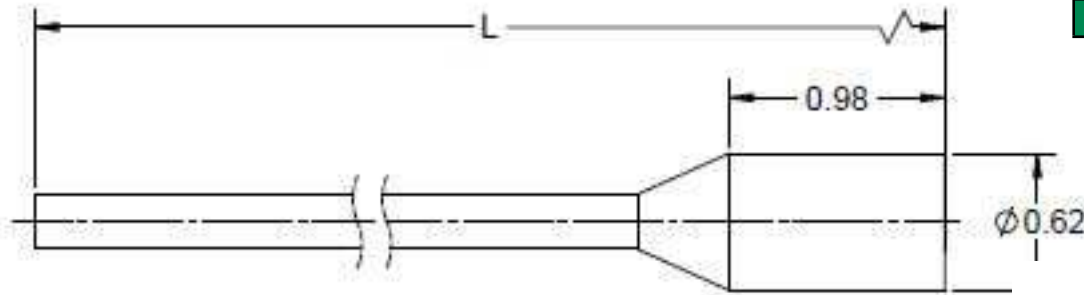
PART #	DESCRIPTION
00389-01M	1m Cable
00389-05M	5m Cable
00389-20M	20m Cable

*Longer cable lengths available upon request.



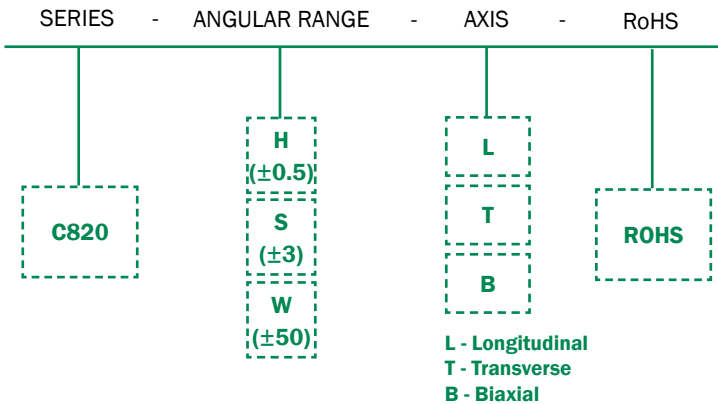
IN-LINE CABLE COLOR CODE

WIRE COLOR	PIN
BLACK	1
WHITE	2
RED	3
GREEN	4
ORANGE	5
BLUE	6
WHITE/BLACK	7
RED/BLACK	8



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

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