



## C802 / DeepWater 420

DeepWater 4-20 mA Tiltmeter

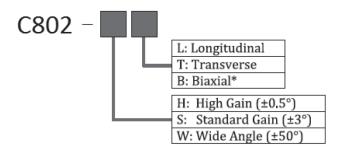
The model C802 Deepwater is a high-precision submersible tiltmeter for use in marine, offshore, and deep ocean applications with 4- 20mA output. Using an absolute gravity referenced electrolytic sensor, the C802 delivers superior measurement accuracy with virtually no long-term drift. High-gain units are sensitive to <0.0017 mm/m or better. All units are rated to +2500m waterproof for advanced protection from the elements. Use the D802 "DeepWater" for structural monitoring, angle measurement and control, platform leveling, and more.



|                             | High-Gain   | Standard          | Wide-Angle           |
|-----------------------------|---|-------------------|----------------------|
| Angular Range               | $\pm 0.5^{\circ}$                                 | $\pm 3.0^{\circ}$ | ±50°                 |
| Resolution                  | <0.0001°  | 0.0006°           | 0.01°                |
| Repeatability               | <0.0002°  | 0.001°            | 0.02°                |
| Non-Linearity               | 1%  | 2%                | 0.5%                 |
| Scale Factor                | 0.0625°/mA  | 0.375°/mA         | 6.25°/mA             |
| Kz Temp Coefficient (deg/C) | ±0.0002°/°C (typical)                             |                   | ±0.002°/°C (typical) |
| Ks Temp Coefficient (%/°C)  | <0.04%/°C (typical)                               |                   | <0.1%/°C (typical)   |
| Time Constant               | 0.15 sec  |                   |                      |
| Output                      | 4-20mA Two-wire current loop (per axis)           |                   |                      |
| Channels                    | Tilt, Temperature                                 |                   |                      |
| Output Impedance            | 270 ohms  |                   |                      |
| Temperature Output          | 0.1°C/mV typical (single ended; 0°C = 0mV)        |                   |                      |
| Power                       | (0.02 Ampere x R + 10 VDC) < Vs < 29 VDC          |                   |                      |
| Environmental               | -4 to +60°C operation; -40 to +85°C storage. IP68 |                   |                      |
| Dimensions                  | 120 x 80 x 60 mm, 5 kg (11 lb.)                   |                   |                      |
| Materials                   | 316 SS (6AL-4V Titanium also available)           |                   |                      |
| Cable                       | 6-conductors, Neoprene, 20 AWG, no shield         |                   |                      |

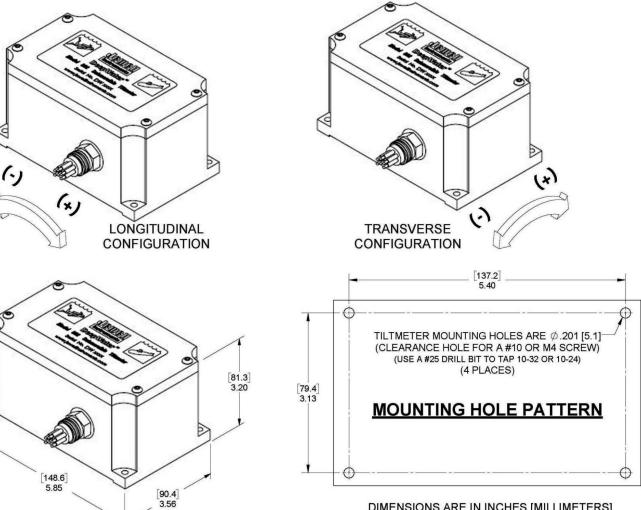
Specifications subject to change without notice on account of continued product development

ORDERING CODE





DIMENSIONS & AXIS CONFIGURATIONS:



DIMENSIONS ARE IN INCHES [MILLIMETERS]

THE

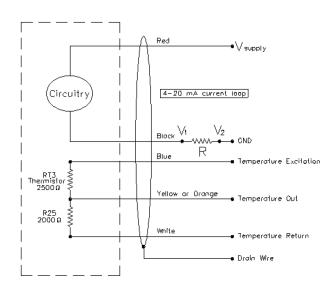
**SENSORS & CONTROLS** 

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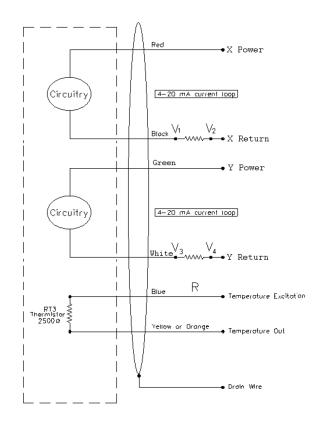




## Model C802 (Uniaxial Versions)







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