

Tuff Tilt Digital

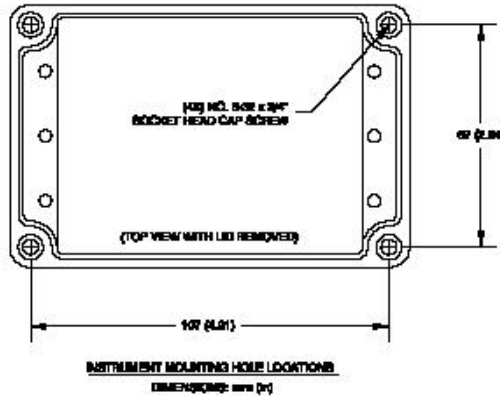
El Tuff Tilt Digital es un instrumento nuevo emocionante para el trabajo de interior y al aire libre que requiere la precisión y la robusta durabilidad. Es excelente para el control continuo del comportamiento estructural, o pruebas de corto plazo de máquina y funcionamiento estructural. Llena un hueco entre el clinómetro económico MD900-T digital y el D711 clinómetro científico. El Tuff Tilt Digital se ofrece con muchas características de gran alcance, incluyendo: La salida RS232, la salida RS485, la salida analógica o el interruptor de inclinación opcional de salida en las versiones RS232, la medición biaxial o uniaxial, y resolución A/D 16-bit.

La salida de datos serial se interconecta fácilmente a muchos receptores GPS, radios de espectro disperso, y convertidores sin hilos de Ethernet. Un sistema de gran alcance de comandos permite al usuario recoger, procesar y almacenar datos, o enviar datos directamente a los dispositivos externos.

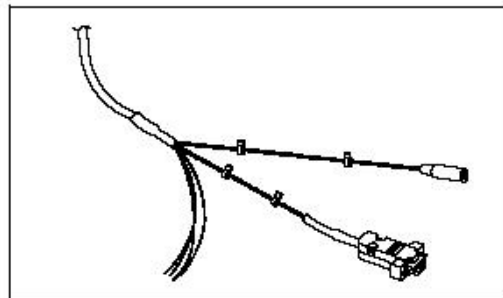


	<i>Tuff Tilt Digital (Standard)</i>	<i>Tuff Tilt Digital (Wide Angle)</i>
ANGULAR RANGE	±3 degrees	±50 degrees (greater range available)
RESOLUTION	0.0001 degree	0.002 degree
REPEATABILITY	0.0003 degree (1 arc second), static	0.004 degree, static
TEMPERATURE COEF.	Zero: ±0.0002 degree/°C typical	Zero: ±0.004 degree/°C typical
CHANNELS	Single-axis or dual-axis with 2 orthogonal tilt channels, 1 temperature channel	
LINEARITY	< 0.1% of full span	
TIME CONSTANT	0.15 second	
DIGITAL OUTPUT	RS232 or RS485, transmit and receive Baud rate: 9600 (default), 19200, 28800, 57600, 115200, 230400 NMEA 0183 compatible (x, y, temperature, serial no.), plus other output strings	
OUTPUT DATA RATE	User-selectable from 10 samples/second to 1 sample/24 hours	
POWER REQ'TS	7 to 26 VDC @ 27 mA, 250 mV peak-to-peak ripple maximum, reverse polarity protected	
ENVIRONMENTAL MOUNTING	-25° to +70°C operational, -30° to +100°C storage. NEMA 4X (IP65) Four no. 8 stainless steel mounting screws included	
MATERIALS	Die cast and painted aluminum	
CABLE & CONNECTOR	3m (10 ft), 6 conductors + one overall shield, PVC jacket. DB9 connector for digital I/O.	
SIZE & WEIGHT	120 x 80 x 60 mm (4.7x 3.2 x 2.4 inches), 0.6 kg (1.5 lb)	

Tuff Tilt Digital Uniaxial and Biaxial Tiltmeters



Mounting holes are accessed by removing lid of tiltmeter.
Use 8-32 or 4 mm screws.



Cable termination details: Tinned ends (left) for power and optional analog or tilt switch output, DB9 connector for serial communications, and barrel connector for power input using optional power supply 00254-02.

Description & Order Numbers	Communications Protocol	
	RS232*	RS485
±3 degrees, Uniaxial, Transverse	98031-02	98034-02
±3 degrees, Uniaxial, Longitudinal	98031-05	98034-05
±50 degrees, Uniaxial, Transverse	98031-03	98034-03
±50 degrees, Uniaxial, Longitudinal	98031-06	98034-06
±3 degrees, Biaxial	98033-02	98035-02
±50 degrees, Biaxial	98033-03	98035-03

* RS232 version is available with optional analog X, Y output or tilt switch output. Please specify when ordering.

Accessories	Order No.
Extra cable	70369
Horizontal mounting plate	84051
Vertical mounting bracket	81439
Power supply (110-240 VAC)	00254-02