Model MD900-T

Digital and Analog Clinometer

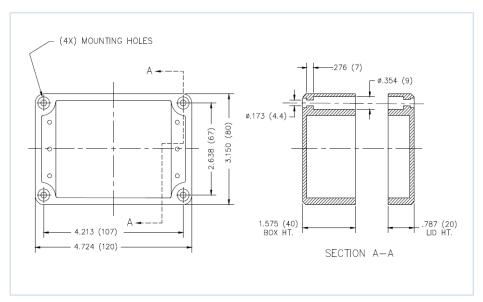
Our Model MD900-T is an economical biaxial clinometer with powerful features typically associated with more expensive instruments. Many thousands are in use today for antenna positioning, surface and subsea marine applications, structural and geotechnical monitoring, and industrial test and measurement.



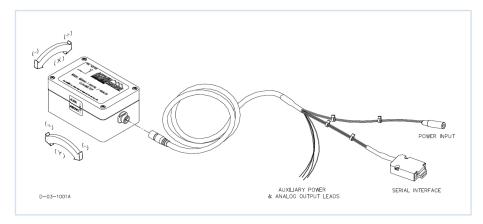
ECONOMICAL BIAXIAL CLINOMETER

Recently upgraded with our "IRIS" electronics, the new MD900-T has lower power consumption, more firmware features and greater reliability than ever before. The internal sensor is a liquid-filled electrolytic transducer with no mechanical moving parts. The clinometer is housed in an easily mountable NEMA 4X (IP65) enclosure. Output data (X tilt, Y tilt, Temperature, Serial no.) are provided in several digital formats, and data are easily graphed and logged with our ZAGI user-interface software, included with every unit.





Enclosure Dimensions in inches (mm)



Model MD900-T Digital/Analog Clinometer with Part No. 84033 Cable Whip (Included)

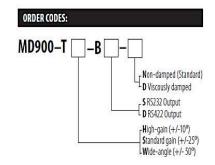


	HIGH-GAIN VERSION	STANDARD VERSION	WIDE-ANGLE VERSION
ANGULAR RANGE	±10 degrees	±25 degrees	±50 degrees
RESOLUTION	0.002 degree	0.004 degree	0.01 degree
REPEATABILITY	0.01 degree (static)	0.01 degree (static)	0.02 degree (static)
HYSTERESIS	0.02 degree	0.02 degree	0.04 degree
LINEARITY	1% of full span typical	1% of full span typical	1% of full span typical
DIGITAL OUTPUT	RS232 standard, RS422 available, transmit and receive. Tw Baud rate: 9600 (default), 19200, 28800, 57600, 115200,		ch compatible, simple (X, Y, Temperature, Serial No.)
ANALOG OUTPUT	X and Y tilt channels: 0-4.75 Volts DC, single-ended (RS2	232 verison only)	
TIME CONSTANT, T	0.15 second; output is proportional to 1-e-t/T-0.01e-t/5	000T where t is time in seconds	
NATURAL FREQUENCY	7 Hz		
TEMPERATURE COEF.	Span: <0.02%/°C typical. Zero (bias): 10 arc seconds/°C	typical. Lower values available.	
POWER REQUIREMENTS	7-28 VDC @ 30 mA, 250 mV peak to peak ripple max., re	everse polarity and surge protected.	
ENVIRONMENTAL	-40° to +85° C operating and storage; 100% humidity,	not submersible; IP65 (NEMA 4X) rating	
ENCLOSURE	Painted, die cast aluminum box, 120 x 80 x 60 mm. 1.8n	n (6 ft) cable included.	
WEIGHT	550g (1.2 lb)		

* greater range available

RS232 WIRING

CIRCULAR CONNECTOR PIN	WIRE COLOR	FUNCTION	DB9 CONNECTOR PIN
1	Red-White	Ground	5
2	Red	Power (7-28 VDC)	_
3	Green-Yellow	Analog X Out	
4	Red-Yellow	Receive Data (RXD)	3
5	Red-Black	Transmit Data (TXD)	2
6	Red-Blue	Analog Y Out	



RS422 WIRING

CIRCULAR CONNECTOR PIN	WIRE COLOR	FUNCTION	DB9 CONNECTOR PIN
1	Red-White	Ground	1
2	Red	Power (7-28 VDC)	<u> </u>
3	Green-Yellow	Rx -	9
4	Red-Yellow	Rx +	8
5	Red-Black	Tx+	4
6	Red-Blue	Tx -	5

84033	Additional 1.8m (6 ft) cable whip, terminated
66166-01	1.8m (6 ft) cable whip, unterminated
00254-02	Additional 12V wall transformer
84051	Horizontal mounting plate
81439	Vertical mounting bracket

