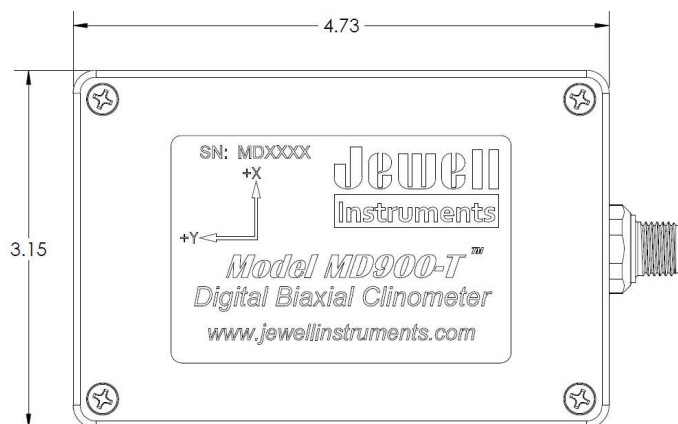
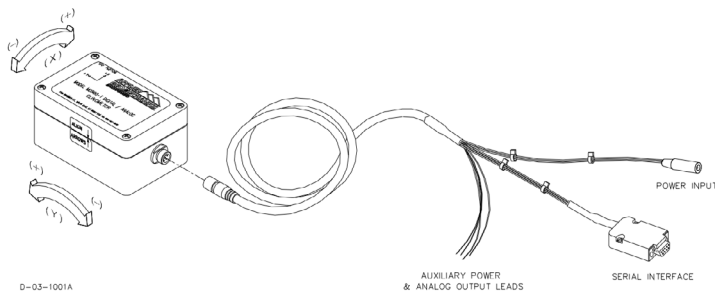


Model MD900-T Digital Clinometer

The biaxial model MD900-T is an economical digital clinometer with powerful firmware features. User programmable settings include AUTO-zero (tare), baud and output rate, sample averaging, and more. Output is RS232 or RS422 (RS485 full duplex). The MD900-T easily integrates with a variety of GPS receivers, and supports Trimble TCM, NMEA XDR, BAE, and Ashtech output protocols. Units ship standard with 6-ft. hook-up cable and 100-240VAC power transformer.

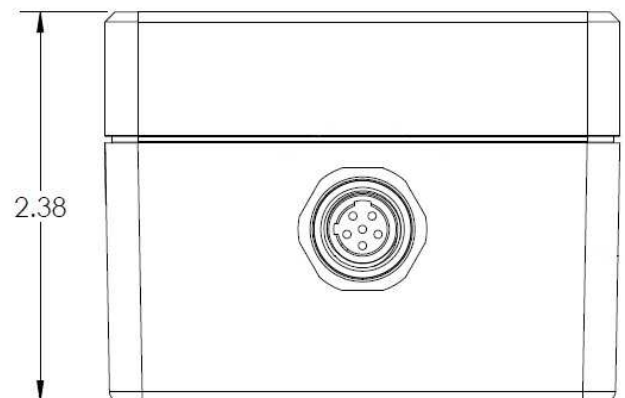


Dimensions: in [mm]



APPLICATIONS:

- Industrial pitch and roll measurement
- Marine piling, dredging, and construction systems
- Platform Leveling
- Geotechnical Monitoring
- Radar platform leveling



PERFORMANCE SPECIFICATIONS

PERFORMANCE

VERSION	High-Gain	Standard	Wide-Angle
ANGULAR RANGE (°)	±10°	±25°	±50°
RESOLUTION	0.002°	0.004°	0.01°
NONLINEARITY (%FRO) ¹ max	1%		
NONREPEATABILITY	0.01°	0.01°	0.02°
TIME CONSTANT	0.15 sec		
K _z TEMP COEFFICIENT	<10 arcsec/°C (typical)		
K _s TEMP COEFFICIENT	0.03%/C (typical)		
OUTPUT	RS232, RS422 (RS485 full duplex)		
OUTPUT FORMAT	NMEA XDR, Trimble TCM, BAE, Ashtec compatible, Simple (default: X, Y, Temp., S/N)		
BAUD RATE	9600 (default), 19200, 28800, 57600, 115200, 230400		
CHANNELS	X-tilt, Y-tilt, Temperature, Serial No.		

ELECTRICAL & ENVIRONMENTAL

NUMBER OF AXES	2
NATURAL FREQUENCY	7 Hz
POWER	7-28 VDC @ 30mA, 250 mV ripple max, reverse polarity protected
OPERATING TEMPERATURE RANGE	-40° to +85° C
STORAGE TEMPERATURE RANGE	-40° to +85° C
WEIGHT	0.55 kg (1.2 lb.)
MATERIALS	Die-cast aluminum, painted

NOTES:

1. 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

PIN OUT:

RS232

CONNECTOR	FUNCTION	DB9 PIN-OUT
RED-WHITE	GND	5
RED	V+ (POWER)	-
GREEN-YELLOW	ANALOG X OUT	-
RED-YELLOW	RXD (RS232)	3
RED-BLACK	TXD (RS232)	2
RED-BLUE	ANALOG Y OUT	-

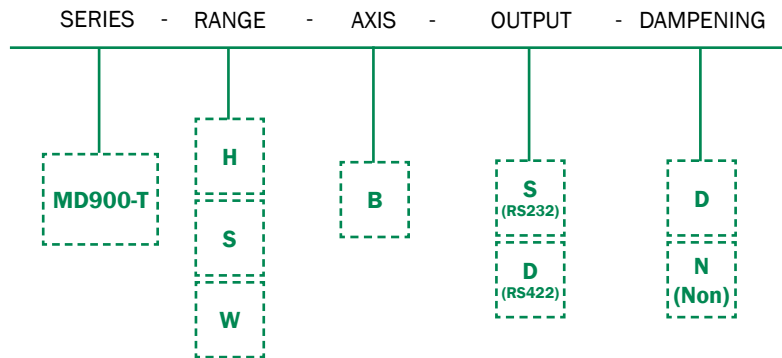
RS422

CONNECTOR	FUNCTION	DB9 PIN-OUT
RED-WHITE	GND	1
RED	V+ (POWER)	-
GREEN-YELLOW	RX-(RS422)	9
RED-YELLOW	RX+ (RS422)	8
RED-BLACK	TX+ (RS422)	4
RED-BLUE	TX- (RS422)	5



ORDERING INFORMATION

HOW TO ORDER Model Numbers are comprised of the series, range, # of axes, output, and dampening.



MODEL #	PART #
MD900-TS-BS-N	98009-01-ROHS
MD900-TS-BD-D	98009-10-ROHS
MD900-TS-BD-N	98009-07-ROHS
MD900-TW-BS-D	98009-05-ROHS
MD900-TW-BS-N	98009-02-ROHS
MD900-TW-BD-D	98009-11-ROHS
MD900-TW-BD-N	98009-08-ROHS
MD900-TH-BS-D	98009-06-ROHS
MD900-TH-BS-N	98009-03-ROHS
MD900-TH-BD-D	98009-12-ROHS
MU900-TH-BD-N	98009-09-ROHS
MD900-TS-BS-D	98009-04-ROHS
MD900-TS-BS-N	98009-01-ROHS
MD900-TS-BD-D	98009-10-ROHS
MD900-TS-BD-N	98009-07-ROHS
MD900-TW-BS-D	98009-02-ROHS
MD900-TW-BS	98009-02-ROHS
MD900-TW-BD-D	98009-11-ROHS
MD900-TW-BD-N	98009-08-ROHS

Accessories:

PART #	DESCRIPTION
70369	6-conductor cable (specify required length on order)
84033	Extra 6-ft Cable Assembly, RS232 Output, w/ DB9-sub Connector
84080-01	Extra 6-ft Cable Assembly, RS422 Output, w/ DB9-sub Connector
00254-02	Transformer, 100-240VAC to 12VDC
81439-01	Mounting bracket for vertical surfaces
84051-01	Mounting plate for horizontal surfaces