

D711-A/B/C Digital Floor-mount Tiltmeter

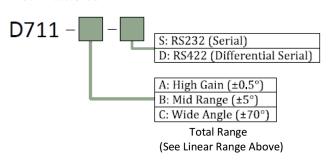
The model D711 Floor-mount Tiltmeter is a rugged, high-precision instrument with advanced digital firmware. Output is RS232 or RS422 (RS485 full duplex). The D711bolts or clamps to any horizontal surface, and is well suited for areas of heavy traffic or vibration. Utilizing a high-precision electrolytic sensor element, units deliver up to 1 µradian resolution with virtually zero long-term drift. Programmable firmware controls include sample averaging, auto-zero (tare), baud/output rate, temperature compensation and more. The D711 also includes on-board memory, with storage capacity up to 22,000 samples. Use the D711 for volcano monitoring, geotechnical engineering, structural monitoring, platform leveling, and more.



	D711-A (High-gain)	D711-B (Mid-range)	D711-C (Wide-angle)			
Total Range	±0.5°	±5.0°	±70°			
Calibrated Linear Range	±0.5°	±5.0°	±60°			
Resolution	1 μradian	10 μradian	21 μradians			
Repeatability	4 μradians (static)	15 μradians (static)	350 μradians			
Non-Linearity	0.4%	0.1%	0.1%			
Time Constant	0.15 sec		0.15 sec			
Kz Temp Coefficient (bias/°C) ¹	±3.5 μradians/°C (typical)		±0.004°/°C (typical)			
Ks Temp Coefficient (%/°C) ¹	±0.02%/°C (typical)		±0.05%/°C (typical)			
Output	RS232, RS422 (RS485 full duplex)					
Output Format	NMEA XDR, Trimble TCM, 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.					
Power	7-28 VDC @ 30mA, 250 mV ripple max, reverse polarity protected					
Environmental	-40 to +85 C operation and storage; IP65					
Dimensions	6 x 6 x 4 inches (15 x 15 x 10 cm), 3 lb (1.4 kg)					
Materials	Anodized and painted aluminum					
Cable	3m (10 ft) multiconductor cable + overall shield, PVC jacket, connectors included					
*Consideration of the state of						

^{*}Specifications subject to change without notice on account of continued product development. ¹For exact Kz & Ks coefficients, we can offer custom temperature characterization for multiple temperature points (additional changes will apply, please contact Jewell for details)



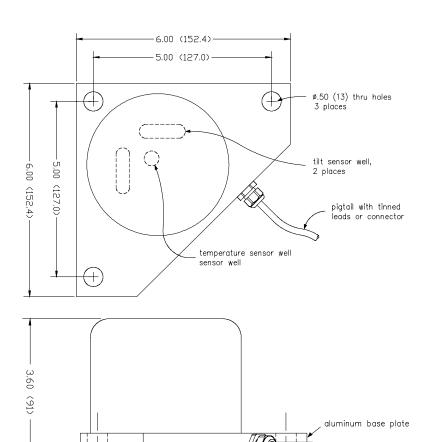


ACCESSORIES

Part No.	Description
70304	Power/signal cable, 10-conductor
	(specify total length on order)
62401	Extra female panel receptacle
	(one included with tiltmeter)
719-AL	Vertical mounting bracket (L-bracket)
718-AL	Horizontal mounting plate



DIMENSIONS



Dimensions in inches (mm)

WIRING/PIN-OUT:

Tiltmeter End		Mating Cable (Computer End)		
Wire Color	Function	Connector Pin	DB9 Pin (RS422)	DB9 Pin (RS232)
Red	Power	Н		
Black	Ground	Α	1	5
Blue	TX (RS232)	E		2
Green	RX (RS232)	G		3
Orange	TX+ (RS485)	D	4	
Gray	TX- (RS485)	J	5	
Yellow	RX- (RS485)	С	9	
Brown	RX+ (RS485)	В	8	
Drain Wire	Cable Shield	F		

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