

Terrella 6

Technical Data

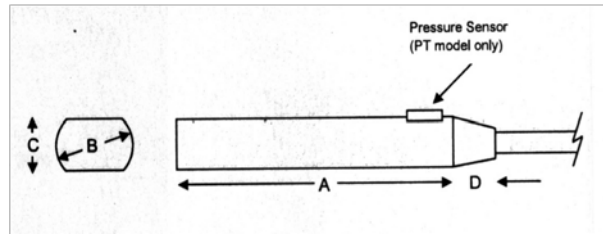
V2

Feature	Min	Max	Resolution	Accuracy	Units	Notes
Compass Heading (Yaw)	0	360	< 0.2	< 1'	[deg]	1-Accuracy
Roll	0	360	< 0.2	< 1	[deg]	
Pitch	-90	90	< 0.2	< 1	[deg]	2-Pitch
Linear Acceleration (3 axes)	-1,500	1,500	< 1	< 5	[mg]	
Magnetic Field (3 axes)	-65,000	65,000	< 50	< 1% Full Scale	[nT]	
Temperature (Steady-state)	-40	85	< 0.1	< 3	[oC]	
Pressure (PT model only)	-14.7	300 or 500	< 0.1	< 2% Full Scale	[psi gauge]	
Additional Outputs: Orientation Matrix, Quaternions						

Communication	Min	Typical	Max	Units
Data Update Rate	1	15	25	[hz]
Baud Rates	9,600; 19,200; 28,800; 38,400; 57,600; 115,200			[bps]
RS-232	Standard			
RS-485/422, Fiber Optic, TTL In-Line External Conversion Boards Available				
Communication Protocol	See Technical Links below			
Continuous and Polled Modes Available				

Power & Environment	Min	Typical	Max	Units	Notes
Supply Voltage	7.5		15	[V]	9 Volts Recommended
Supply Current Standard @ 7.5V		65		[mA]	
Supply Current PT Model @ 7.5V		85		[mA]	
Shock Survival		3,500		[g]	3-Shock Survival
Storage Temperature	-40		100	[oC]	
Operating Temperature	0		45	[oC]	
Temperature Compensation	Compensated in Hardware and Software				
Pressure Survivability (Standard)		2500		[psi]	

Physical/Mechanicals	Inches	mm
Standard Package		
Length (A)	3.85	97.8
Diameter (B)	0.65	16.5
Height (C)	0.52	13.2
Tapered Region (D)	0.75	
		19.1
PT Package		
Length (A)	4.75	120.7
Diameter (B)	0.77	19.6
Height (C)	0.64	16.3
Tapered Region (D)	1.00	25.4
Material	Vacuum Molded Polyurethane	
Connector (Standard)	8 Pin Mini-DIN Plug (4 wire interface: TX, RX, PWR, GND)	
Connector (PT model)	8 Pin Mini-DIN Plug (4 wire interface: TX, RX, PWR, GND)	
Cable	Polyurethane Jacketed, 6 ft, Standard	



Notes

1. Compass accuracy is defined as the RMS heading error at a simulated 68 degree latitude at roll = 0 & roll = 180; pitch = 0 r3.1
2. As Pitch approaches +/- 90, Roll is undefined
3. Projected, based on individual component ratings

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