MOSE-G1000

Datawell - Oceanographic Instruments

Specifications

Motion sensor	Sensor	single GPS (not differential)
	Periods	1 - 100 s (high frequency) 10 - 1000 s (low frequency)
	Precision	1 - 2 cm (high frequency) 5 - 10 cm (low frequency, 1000 s cut-off) 3 - 5 cm (600 s cut-off) 2 - 3 cm (300 s cut-off) all 1σ, lower limit horizontal precision, upper limit vertical precision
	Calibration	not required ever
	Exclusion	Selective Availability (SA, may be switched on by US Department of Defence for strategic reasons) will have the following effect: low frequency motion not resistant to SA high frequency motion period range reduces to 1 - 30 s
Motion data	Data	date, time, local north, local west, local vertical, GPS gap indicator (high and low frequency)
	Resolution	1 mm
	Rate	2 Hz (high frequency) 0.2 Hz (low frequency)
	Latency	approx. 4 min (high frequency) approx. 40 min (low frequency)
	Reference	WGS84
Position	Sensor	GPS
	Precision	5 - 10 m, 1σ
	Rate	every 10 sec.
	Exclusion	SA will reduce position precision to 100 m
	Data	date, time, longitude, latitude, height, HDOP, VDOP
Interface	Port	RS232, NMEA compliant
	Format	NMEA proprietary messages
General	Outer dimensions	height 0.16 m (incl. GPS ant.) base plate 0.20 m × 0.20 m
	Weight	approx. 5 Kg
	Housing material	stainless steel AISI316
	Power	10 – 30 V, 1.5 W

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