

# Motion Reference Unit 05

## 6 Channel MRU

### Solution Overview

#### Applications

- Heave Compensators
- Survey: Attitude and Heave Correction

#### Features

- GPS Aiding
- Heave algorithms self tuning to vessel motion spectrum
- Centripetal acceleration correction during turns

#### Windows Display

- Significant Heave  $H_s$
- RMS heave rate
- Roll, Pitch and Heave Histories
- Data Logging



### Technical Specification

Roll Error *	< 0.05°	Output Data Rate	50Hz
Pitch Error *	< 0.05°	NMEA Outputs	
Heave Error	30mm or 3% of Heave	Baud Rate	9.6kB to 115.2kB
Acceleration	±2g	Dimensions	120mmx180mm
Angular Rate	±67 deg/s	Shock	25g, 11ms half sine
Serial Comms	RS232/RS422	Operating Temp.	-10C to 50C
Body axis rate o/p	p, q, r	Mass	4 kg
Data Bandwidth	20Hz	Power	24V 5W
		* 1σ error	

### Precision Control Technologies Limited

Unit 2 | Keyford Court | Manor Furlong | Frome | Somerset | BA11 4BD  
 Phone: 01373 454006 | Mob: 07973 221765 | E-mail: sales@precisioncontrol.co.uk  
[www.precisioncontrol.co.uk](http://www.precisioncontrol.co.uk)