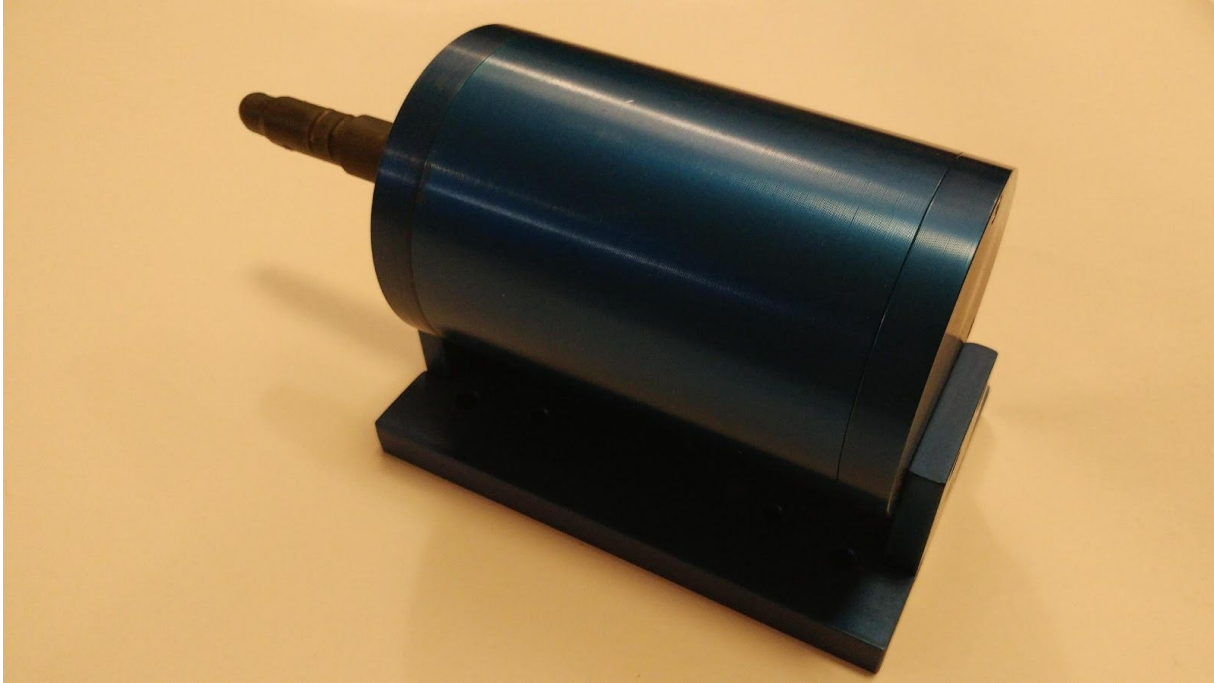




Think Sensor Research Inc.
Phone: 778-895-2201
Email: info@thinksensor.com
Website: <http://www.thinksensor.com>

TSR-100 V2 MOTION REFERENCE UNIT



The TSR-100 V2 is a Motion Reference Unit (MRU) designed to accurately measure pitch, roll, heading and heave in surface and underwater applications under static and dynamic conditions.

The TSR-100 V2 MRU can be mounted on marine vessels, remotely operated vehicles, and autonomous underwater vehicles to help support your mission objectives such as sonar surveys, imaging sonar compensation, attitude measurement and orientation.

The TSR-100 V2 MRU features:

- gyro compensated pitch, roll, heading and heave output for operations in static and dynamic conditions
- output string modified to your specification
- can be installed in any orientation
- magnetic interference detection
- optional pressure / temperature sensors



Think Sensor Research Inc.

Phone: 778-895-2201

Email: info@thinksensor.com

Website: <http://www.thinksensor.com>

TSR-100 V2 MRU SPECIFICATIONS

FEATURE	SPECIFICATION
Size	3.5 in DIA x 6 in L, 89 mm DIA x 152 mm L
Material	Anodized Aluminum cylinder with mounting plate
Weight	1.2 kg (Aluminum) in air
Depth Rating	3300 m
Power	7 VDC to 36 VDC reverse polarity protected
Communication	RS-232, RS-485, RS-422, USB
Connectors	6 pin LSG-6-BCL or 6 pin Subconn
Pitch / Roll Accuracy	0.05 ° RMS Note that the orientation and heave accuracy depends on the application and the environment that the sensor is operating in (i.e. vibration, dynamic motion and etc.).
Heading Accuracy	1.0 ° RMS typical for most conditions under ideal magnetic conditions
Heave Accuracy	5 cm if heave is less than 1 meter, 5% if heave is greater than 1 meter
Heave Resolution	1 cm
MRU Output	TSS1, NMEA 0183
Wave Height	+/-10 meters
Wave Period Range	Up to 20 seconds