

Dynamic Positioning Signal Simulator



The DPSS® is an easy to use tool which allows vessel crew to simulate complex Dynamic Positioning (DP) signals for use in DP system testing.

Complex testing of DP systems is now made easy and quick without the user having in depth knowledge of the software needed to simulate these signals. The DPSS® puts the ability to easily simulate the signals into the hands of the user.

The DPSS® aids crew to fault find with the DP system, allowing for the source of the fault to be pinpointed and potentially resolved by the crew. The DPSS® reduces the need for callouts to service engineers, reducing downtime and expense whilst increasing the confidence of the crew.

The DPSS® allows for signals from 11 different reference systems and sensors to be sent into the DP system to test for an appropriate response. For example, as part of DP trials, a faulty NMEA wind signal can be sent to the DP system to test that the DP system will correctly recognise the signal as faulty and reject it.

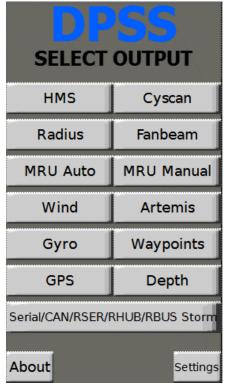
The DPSS® also allows for jabber testing to be carried out on RS232, RS422 and CAN bus communication links. This can be used as **an independent test on board.**

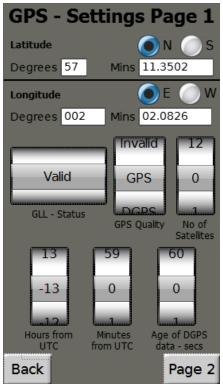
Applications

- Fault finding tool
- FMEA proving trials and annual trials
- DP training tool
- RS232, RS422 and CAN bus jabber testing

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PHYSICAL

DPSS Signal Types

- GPS GGA, GLL, ZDA, GNS and GST
- Wind MWV
- Depth DPT
- Fanbeam MDL + Checksum, MDL, BCD, Nautronix
- Radius PSXRAD, ABB
- MRU manual and simulated mode - PSXN
- Artemis ADB, BCD0.01, ASCII -16, ASCII-17, ASCII-22
- Gyro HDT
- HMS Temperature, Humidity and Pressure - XDR
- Waypoints RTE, WPL
- Serial/CAN bus storm RS232/RS422/CAN bus
- CyScan RLS
- RS232, RS422, CAN bus jabber

SETTINGS		
Serial	300, 600, 1200, 2400, 4800, 9600, 19200,	
baud	38400, 57600 and 115200 baud	
rates		
CAN bus	50, 100, 125 and 250 kBit/s	
speeds		
Frequency	1, 2, 5 and 10 Hz	
CAPABILITY		
RS232	GPS, Wind, Depth, Fanbeam, Radius, MRU	
&	(manual and simulated mode), Artemis,	
& RS422	(manual and simulated mode), Artemis, Gyro, HMS (Temperature, Humidity and	
	Gyro, HMS (Temperature, Humidity and	
	Gyro, HMS (Temperature, Humidity and Pressure), Waypoints, CyScan, Serial	
RS422	Gyro, HMS (Temperature, Humidity and Pressure), Waypoints, CyScan, Serial jabber/storm ability	
RS422	Gyro, HMS (Temperature, Humidity and Pressure), Waypoints, CyScan, Serial jabber/storm ability CAN bus jabber/storm –	

	THISICAL	
	DPSS unit weight	1.05 kg
	DPSS + accessories + case weight	5 kg
	DPSS only dimensions	27cm x 12.5cm x 5.7cm
	DPSS case dimensions	48.8cm x 38.6cm x 18.5cm
	Time to charge battery	Approximately 2 hours
	Typical battery life	Approximately 10 hours
	Operating	0°C to 70°C
	temperature range	
	Screen size	4.3 inches

Specification subject to change

STANDARD SUPPLY

Standard DPSS unit, RS232 cable, RS422 cable, CAN bus cable, Battery charger, Manual, 9 pin breakout board, supply Serial adaptors, Ethernet cable and USB to RS232 adaptor all supplied in a Peli case

Optional RBUS, RSER and RHUB communication storm testing modules

Example DPSS screenshots

Additional functionality available upon request



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