

TrialsApp

Portable sea trials data acquisition system



CJR
PROPULSION

Overview

- 1x TrialsApp android tablet
- 3x Wireless vibration FFT / Sound level sensor
- 3x Sound level meters
- 1x Wireless shaft RPM sensor
- 2x RPM optical sensors
- 1x roll of reflective tape
- 1x Protective carry case
- 7x USB batteries
- 8x sensor connection cables USB
- 3x Microphone audio connection cable (3.5mm)
- 1x adhesive tapes

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Specifications

Data Acquisition

TrialDAS onboard sensors

3-axis accelerometer, 3-axis gyroscopes, 3-axis magnetometers 10 Hz acquisition rate

Trim and Roll angle calculation

Robust orientation algorithm (a highly-optimised fully-quaternion extended Kalman filter)

Accuracy

+/- 0.25° (static testing)

GPS

Integrated GPS receiver in tablet

Vibration / Sound module

Accelerometer

Single axis accelerometer ADXL362 with built in anti-aliasing filter (200Hz)

Sensitivity

1mg / bit

Range

+/- 2g, 4g, 8g TrialsApp uses 2g

Output type

Digital

Sound level

Option of IEC 61672 class 1 or EN 6172-1:2002 Class 2 (Price difference) Class 2 supplied as standard

Power

Sensors

5V (powered by USB – Mains or battery)

Tablet

Built in battery, charged by USB

Physical Specifications

Accelerometer size

tbc

Accelerometer Weight

tbc

Overall Package weight

tbc

After Sales Support

Manufacturer's warranty

1 year limited (cables not included)

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