Fastwave

VOYAGER SOLAR DRIFTER BUOY

VOYAGER SOLAR IS IDEAL FOR LONG TERM OCEANOGRAPHIC STUDIES, BUT CAN BE USED FOR SHORTER DURATION MISSIONS AS WELL.

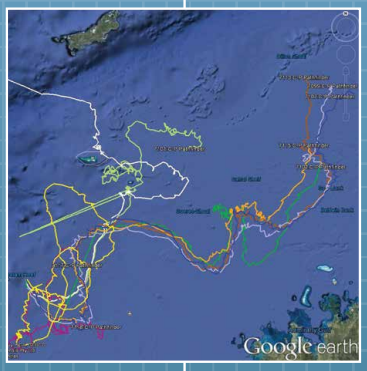
VOYAGER SOLAR IS POWERED BY A MARINE SOLAR PANEL, WITH A RESERVE ALKALINE BATTERY PACK TO PROVIDE CONTINUED OPERATION DURING PERIODS OF LIMITED SOLAR RADIATION.

THE COMBINATION OF SOLAR AND BATTERY POWER PROVIDES THE VOYAGER WITH VIRTUALLY UNLIMITED ENDURANCE FOR OCEAN SURFACE CURRENT TRACKING AND TEMPERATURE MEASUREMENT.

NEAR REAL-TIME DATA FROM THE VOYAGER SOLAR VIA FASTWAVE'S DATA MANAGEMENT PORTAL, OR DELIVERED DIRECTLY TO END-USER APPLICATION.

APPLICATIONS

- Ocean current tracking
- Sea surface temperature monitoring
- Oil spill modelling and tracking
- Outfall and dredge plume tracking
- Maritime Search and Rescue operations
- Contaminant and debris tracking
- Coastal engineering studies
- Water quality studies
- Coral spawning studies



FEATURES

- Global, near real-time, 2-way Iridium satellite communication system transmits GPS position, sea surface temperature and battery voltage
- Design minimises wind influence and ensures close coupling with surface layer
- Unlimited endurance on with solar power, approx. 1000 transmissions on reserve battery
- Recoverable and re-useable
- User replaceable, long shelf-life, flyable D-Cell alkaline battery pack
- Drop launch from up to 15m, air deployable with optional parachute
- Simple to deploy with magnetic on/off switch
- LED and vibration alert for on/off
- Compact and easy to deploy
- Remotely adjustable reporting interval (2 Min - 24 Hrs.)
- Rapid response mode for oil spill tracking and search and rescue
- Real time tracking and alerting via Fastwave buoy tracking portal

VOYAGER SOLAR DRIFTER BUOY SPECIFICATIONS

Height Overall	680 mm
Diameter	310 mm
Approx. Weight	6.7Kgs
Material	HDPE (High Density Polyethylene)
Power Supply	**MAIN POWER SUPPLY:** Ni-MH re-chargeable battery pack, 2,500 mAh, 9.6 V (8 cell) powered by a SOLAR PV **Charging Source of** 2.8 watt, 12.0 to 13.5 Volt dc 'donut' form factor top mounted monocrystalline panel. **BACKUP POWER SUPPLY:** Alkaline non-rechargeable Battery Pack (6 X D-Cell, 9.6V) standby supply.
Communications	Iridium short burst data – Iridium Satellite & GPRS GPS receiver (Receive only).
Temperature Sensor Operating Environment	Water Temp: -2 to +65 degrees Celsius
Operating Life	**MAIN Power Supply:** (Normal mode of operation) - Indefinite number of transmissions. SOLAR/Rechargeable power endurance is dependent on weather conditions in the deployment location. Fall-back power supply is then placed ONLINE once the MAIN POWER SUPPLY is expended. A further 1,000 transmissions is then afforded if the MAIN supply is NOT available until backup battery supply is expended. **BACKUP SUPPLY ONLY:** (NO SOLAR PV output mode) - Around 1,000 transmissions on fully charged battery pack at default 15 min transmission interval.
Notes: Solar (PV) performance is subject to the Voyager Solar Drifter Buoys operational latitude location. Backup battery endurance is subject to the number of transmissions in a given period.	

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