

SVP-BT/RTC

Quasi-Lagrangian drifter

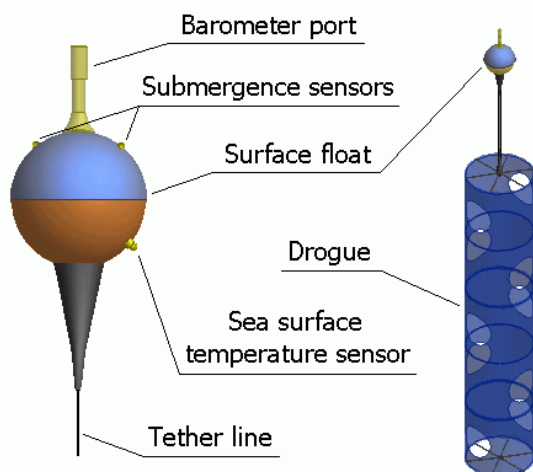


PURPOSE

SVP-BT/RTC Quasi-Lagrangian drifter was developed for investigation of subsurface currents and measure of the water and meteo parameters with data transfer via Argos or Iridium satellite communication systems

MAIN PARAMETERS

- Subsurface currents
- Sea surface temperature
- Barometric pressure
- Telemetry: Argos-2, Argos-3, Iridium (optional)
- GPS receiver (optional)
- Real Time Clock - RTC
- Subsurface temperature at 12.5 m depth



SPECIFICATION

Specification	DBCP Report No.4, REVISION 2.2, August 2009			
Sensor array	Barometric Pressure (BP), Sea Surface Temperature (SST), Air Pressure Tendency (APT), Submergence (SubM), Battery Voltage (BV), Subsurface temperature (Tz),			
Sensors parameters	Parameter	Range	Resolution	Accuracy
	BP (hPa)	850 to 1054.7	0.1	±1.0
	SST (°C)	Minus 5 to +35.88	0.08	±0.1
	APT (hPa)	Minus 25.5 to 25.6	0.1	±1.0
	BV (V)	7 to 14	1	±1
	Subm (%)	0 to 100	1.6	±1.6
Tz (°C) at 12 m	Minus 5 to 35.92	0.04	±0.1	
Communication	Argos-2, Argos-3 or Iridium satellite system			
Data format	The DBCP recommended message format			
Period of samples	60 minutes (another is optional)			
RTC	Real Time Clock to have samples at round hours			
GPS receiver	GPS module UP501, Fastrax			
Tracking	Doppler locations via Argos or Iridium / GPS locations			
Battery pack	D-size alkaline cells			
Lifetime in days (after one-year storage of a buoy)				
Surface float	41 cm diameter fiberglass hull			
Tether line	0.56cm OD one-core conductor-and-support cable between surface float and drogue. The cable is inserted into 14 mm OD air hose			
Drogue	Holey sock: 92 cm diameter, 552 cm height Drogue consists of 6 cylindrical sections, each 92cm long			
Drogue depth	Drogue is centered at 15 m (optional down to 50 m)			
DAR	Drag Area Ratio = 31.5			
Drogue presence	By means of data from submergence sensor			
Optional	Configuration of drifter (communication link, GPS presence, etc.) can be adjusted with user's requests			