

SC40 SVP-BRST

Sea surface temperature and depth measurement

The **SC40 SVP-BRST** buoy is a drifting buoy fitted with a Sea Surface Temperature sensor (SST), a Barometric Pressure sensor, a Drogue presence sensor, a **High Resolution Sea Surface Temperature sensor** (HRSST), a GPS positioning and an IRIDUM satellite communication to transmit its data. The sensor can be easily removed from the buoy to be calibrated by any certified metrology laboratory.

Application :

In the Trusted project :

The data provided by SC40 SVP-BRST *will serve as calibration and validation of accurate satellite HRSST retrievals from the Copernicus Sentinel-3 SLSTR. The project will further assess the suitability of drifting buoys to provide Fiducial Reference Measurements.*

Main features

- Very simple to use
- In option "holey socks drogue" and various length of line
- Easy BT connection for parameters setting
- Alkaline battery solutions
- 40 cm diameter spherical buoy

This product was developed within the scope of the European Union's Copernicus TRUSTED project.

This product was developed within requirements of the Data Buoy Cooperation Panel (DBCP), the data buoy component of the Joint World Meteorological Organization (WMO) and Intergovernmental Oceanographic Commission (IOC, of UNESCO) Technical Commission for Oceanography and Marine Meteorology (JCOMM).



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INSTRUMENTATION





SC40 SVP-BRST

Ocean drifter

Model	SC40 SVP-BRST
Main	IRIDIUM & GPS
Transmitter	9602 iridium modem
Antenna	Helicoidal for Iridium Patch for GPS
GPS & position	
Receiver	72 channels , code CA
Acquisition period	From 5 minutes to 10 days (1 typical hour)
Accuracy	Typical < 10 meters
Transmission	
Period	From 5 minutes to 10 days
Messages	11 fixes in one SBD (optional)
Measurements	
Temperature Sensor (HRSST)	
Accuracy / Resolution	+/-0.005°C / 0.001°C
Range	-2°C +35°C
Temperature sensor position	-15 cm
Depth Sensor	
Accuracy / Resolution	0.15% / 0.5mm
Range	0 to 30dBar
Barometric Pressure Sensor	
Range	800...1100hPA
Accuracy	+/-0.3hPA at +20°C
Analog Sea Surface Temperature (SST)	
Accuracy	< +/-0.1°C
Drogue indicator	
	Gauge sensor
Drogue	In compliance with DBCP drag ratio >40
Drogue	Holey socks 0.6 m length 5 meter,
Line	Drogue centered at 15m
Battery & autonomy	
Technology	Alkaline
Capacity	72 Ah
Autonomy	According parameters setting > 1,5 year
Environmental features	
Operating temperature	-20°C to +50°C
Storage temperature	-10°C to +25°C for optimum battery shelf life
Water tightness	10 dbars

Based on our WiSens technology



Credit: Thalassa



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