



TARI BSP1

SMART spar buoy

- ✓ Build for TARI controller
- ✓ Two MPP measurement tubes
- ✓ Inductive communication to seafloor instrumentation
- ✓ GPRS, UHF and Iridium telemetry
- ✓ 3-5 Solar panels & 110 Ah battery
- ✓ Configurable light



This TARI smart buoy is part of our environmental ecosystem. The buoy comes with two measurement tubes that can each hold a multiparameter probe. Our controller in the buoytop can be equipped with UHF, GPRS and Iridium to solve your telemetry puzzle. Together with our seafloor hardware it gives you access to real-time seafloor measurements on your vessels or offices.

The heart of the buoy is our TARI modular controller. This controller brings with it all the telemetry options and modules needed. The most popular is the MPP module that allows the interfacing of two multiparameter probes that can be fitted in the two available tubes.

To cover all the telemetry options, this buoy can be equipped with UHF, GPRS and IRIDIUM antenna's that all integrate neatly in the body. No cables are left outside to the elements but go directly inside the buoy body giving you a sturdy and reliable solution.

The buoy has a GNSS antenna that connects to the TARI BRAIN. This not only gives you the option to get position information on your buoy, but also timesynchs the TARI BRAIN to the GPS clock giving you a zero drift solution.

Up to 5 38Wp solar panels can be mounted on the buoy. They are all connected to the internal battery charger with maximum power point tracking. These panels give enough energy to keep the internal 110Ah 12V AGM battery charged. Battery voltage and charging/discharging currents are constantly monitored and transmitted by the buoy.

When using the BUOY module on the TARI controller, you can connect our seafloor hardware range through inductive communication. This enables real-time seafloor measurements like ADCP and multiparameter probe measurements. When a seafloor controller SFC1 is present, the BUOY module can also provide tidal measurements.

The top of the buoy is constructed from a yellow PE material that is coloured to the core. No corrosive effects can occur. The PE material is UV-stabilized and colourfast to guarantee a long service life. The buoy is equipped with a solar powered lantern.

Controller :

- one TARI BASE mounting position

Power

- Max 5 x 38 Wp solar panels
- 110 Ah battery
- 6A maximum power point charger

Environmental

- Operational temperature -20°C +55°C

Antenna

- 1 x GPRS (900/1800/1900/UMTS)
- 1 x UHF (420-470 MHz)
- 1 x Iridium(1616-1626.5MHz)
- 1 x GNSS(Active GPS/GLONASS)

Lantern

- Yellow 25 cd intensity
- 40 flash patterns