

# SB-2200P

## Sentinel® Buoy

SB-2200P Sentinel®, a larger patented version of the extremely successful SB-98P, is Tideland Signal's newest generation of large sea buoys. This buoy's patented hull, lifting and mooring eye system, and its twin-keel design, bring together two decades of experience in providing worldwide, on-station alternatives to steel and GRP buoys. The SB-2200P modular design is ideal for use in open seas, exposed channels and harbours, and its twin keel provides superior performance in currents up to 6 knots. SB-2200P is a direct replacement for most steel ocean buoys.



### FEATURES

- **UV-STABILISED POLYETHYLENE** – Rotationally moulded for a tough 12mm thick body with increased thickness for reinforcement at stress points. The polyethylene material is abrasion resistant, shock absorbing, impact resistant, and able to withstand collisions at sea. In addition, it repels marine growth. Colour pigment is impregnated throughout, eliminating the need for repeated, costly sandblasting and painting.
- **MODULAR CONSTRUCTION** – A float section, middle superstructure section and top navaid section form the SB-2200P buoy. In the event of damage, individual sections can be easily replaced on the deck of a buoy tender at sea.
- **FLOAT SECTION OF 2.2 METRES DIAMETER** – Utilises a patented high strength, internal structure, solidly linking a two-position mooring eye, two lifting eyes, deck and superstructure. The hull is filled with polystyrene beads, expanded and bonded through a steam process, filling voids and limiting water ingress in case of puncture.
- The one-piece polystyrene adds rigidity and support to the tough polyethylene outer hull. Twin keels provide stability in fast water and support the buoy standing erect on deck. The SB-2200P two-position mooring eye is provided for either fast or slow water conditions.
- **SUPERSTRUCTURE SECTION** – A maximum of 4 12-volt, 105 Ah lead-acid batteries can be located with this section above the waterline. This section includes a hinged, tamperproof, watertight service hatch.
- **MATCHING OR ALTERNATING COLOURS** – Bifurcation buoys easily can be made, either red or green as needed. Cardinal buoys can be assembled using the same method with yellow and black sections. Fairway or Safe Water buoys are produced using a process of colour graphics, resulting in red and white vertical striping. Wreck marker buoys use the same process, resulting in blue and yellow vertical striping.
- The standard SB-2200P is suitable for use with a self-contained lantern.
- **NAVAID TOP SELECTION** – This section supports up to 4 optional 40-watt solar modules. Configurations can vary depending on electrical load and average solar isolation for the deployment site. An internal, high gain, passive radar reflector (10m<sup>2</sup>) can be included. All additional internal optional equipment is housed in this section.
- **CRATING/SHIPPING** – The design of the SB-2200P allows transport of four (4) buoys in a standard 40 foot container, minimising shipping costs.

### OPTIONAL EQUIPMENT AVAILABLE

- Moorings
- Ladder
- Focal Height Extensions
- Solar Modules
- Racon
- Battery Hatch & Battery Fixture
- Daymarks & Topmarks
- Manguard
- Lantern and Lantern Guards
- Remote Monitoring
- AIS AtoN

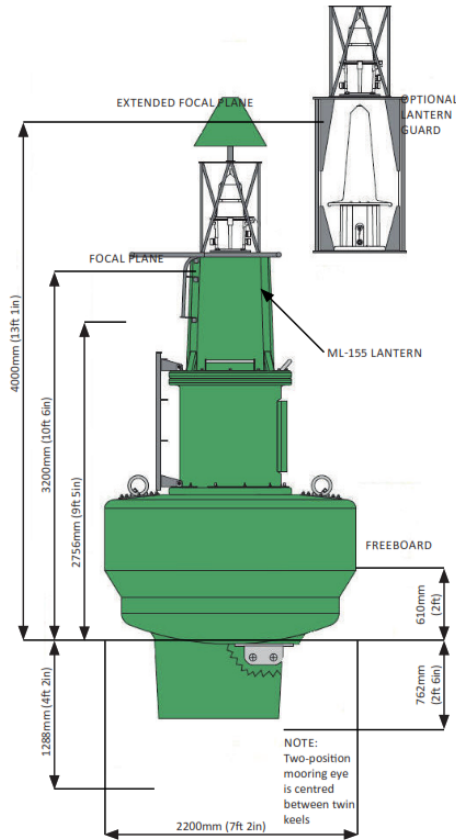
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Technical Details	
Construction	Rotationally moulded in low density UV-stabilised virgin polyethylene
Foam Filling	16kg/m <sup>3</sup> expanded polystyrene foam
Air Weight	1750kg (3858lb)
Diameter	2200mm (7ft 2in)
Nominal Focal Plane Height	3200mm (10ft 6in)
Optional Extended Focal Plane	4000mm (13ft 1in)
Nominal Draft	1288mm (4ft 2in)
Nominal Freeboard	610mm (2ft)
Submergence	38kg/cm (215lb/in)
Radar Reflector	10m <sup>2</sup> (X-band)
Radar Range, Nominal	3 to 4NM
Visual Area with daymark panels (can shape)	3.7m <sup>2</sup> (40ft <sup>2</sup> )
Visual Area with daymark panels (nun shape)	3.3m <sup>2</sup> (36ft <sup>2</sup> )
Colour	As specified
Maximum Mooring Load	1175kg (2590lb)
Maximum Current	6 knots

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