



Tideland Upgrades Bulgarian Aids to Navigation

Tideland Signal has supplied a range of high-performance LED-based warning lights for a major repair and maintenance project on aids to navigation along the Black Sea coast of Bulgaria.

The project was carried out by a local company Alfori Ltd. on behalf of the Bulgarian State. The project involved the refurbishment of a number of lighthouses and shore beacons at Burgas, Nesebar, Primorsko, Rossenets, Tsarevo, Ahtopol, Kavarna and



Tideland's MLED-120SC self-contained lantern with integral batteries and solar arrays, shown in a range of IALA colours.

Balchik and replacing the old traditional, incandescent lanterns with modern Tideland LED lanterns. The lanterns included one MLED-300, two MLED-155 and seven MLED120SC's. A quantity of 30 MLED-120SC lanterns were also supplied for mounting offshore on refurbished buoys along the Bulgarian coast.

The MLED-300 and MLED-155 LED lanterns are fitted with MaxiHALO 60 LED flashers, mounted in the Maxlumina lens.

The solar-powered model installed in the Burgas lighthouse achieves >1400cd, a nominal range of 10 nautical miles >16 NM @ T=0.85) with a power consumption of only 8.7W. Also solar-powered, the six MLED-155s installed on the entrance beacons at Burgas and at Primorsko are configured for ranges from 2NM to 6NM.

Tideland's high-intensity LED technology, backed by advanced power conditioning circuitry delivers extremely high reliability and long service life both

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offshore and in land-based installations. In particular, the power efficiency of the Tideland range makes it highly suitable for buoy mounting, beacons, offshore structures and other solar-powered applications.

Tideland's MLED-120SC is a self-contained lantern with integral batteries and solar arrays. Its LED technology provides a high intensity light with low power consumption and minimal maintenance over an estimated twelve-year life. The DA-65 diode array mounted on the polymeric housing consists of 30 precision, high-intensity light emitting diodes mounted in a Tideland parabolic mirrored reflector and providing an even, 360° light source. Two switches control 256 flash characters. The intensity of the light generated by the LEDs is such that a low power setting is sufficient to give in excess of four-mile visibility in most conditions.

Founded in 1954, Tideland Signal Corporation is committed to meeting and exceeding the requirements for marine aids to navigation to the maritime industry.

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