



Tideland self-contained LED lanterns for Hay Point, Australia

Maritime Safety Queensland has chosen aids to navigation from Tideland Signal Limited for the Port of Hay Point, one of the largest coal export ports in the world.

The Tideland equipment marks the new departure channel for the Hay Point and Dalrymple Bay coal terminals. Each of the four new beacons has a Tideland MLED-120E lantern fitted with a GPS module, RMC 3 remote monitoring and control, Tideland's Navlink and UHF antennae so that they can be controlled from the Navterm console and UHF base station installed at the Hay Point VTS centre. In addition, the outer beacon is equipped with Tideland's SeaBeacon 2 System 6 racon to mark the approaches to the channel.

MLED-120E is a diode-based lantern offering long life, low maintenance and high efficiency. Compact and lightweight, it is designed for wide angle vertical divergence and a performance range of 4 to 6+ NM. The water-resistant construction allows the lantern to perform even when periodically submerged. The lanterns at Hay Point have four tiers of LEDs, programmable sunswitch and flasher time control with a choice of 256 different codes.

The inherent properties of light emitting diodes (LEDs) ensure that the effective intensity of flashing lights is maximised, while the MLED-120E's high-efficiency DC to DC converter provides virtually constant luminous output under a wide range of input power conditions.

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A Tideland SeaBeacon 2 System 6 racon, which combines long range with extremely low power consumption, gives a clear indication of the obstacle to all ships' radars in the vicinity. SeaBeacon 2 is an advanced, microprocessor-controlled racon weighing only 11.3kg. and protected by inert gas pressurization.

SeaBeacon 2 System 6 incorporates major advances in operating range, sidelobe suppression at short range, dynamic range, sensitivity, and output. Its intelligent power management system allows users to programme precise quiescent and active periods as required to match performance with power consumption. In addition, it will automatically return to quiescent mode after a four-second active period, if there is no local radar activity.

Approved to ISO 9001:2000, Tideland Signal Limited is a British-based member of the Tideland group of companies, which specialises in aids to navigation and solar generation. The Tideland group is independently owned and has its headquarters in Houston, Texas.

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