MRAS

Twilight Device

The MRAS is a twilight detection device equipped with two photodiodes and a GPS module for detecting light levels. It is designed to be compatible with most maritime marking systems and can be customized upon request to adapt to any system. The MRAS provides triple night-detection capability, enhancing the system's reliability and safety.

Night Detection

The MRAS offers two methods for night-state detection: photodiodes and a GPS module. Primary detection is performed through the photodiodes; when one detects the configured light level, the system switches to night mode. If the photodiodes fail, the system switches to night mode based on the GPS time.

GPS System

The MRAS automatically detects its geographical position and uses this information to calculate daily sunrise and sunset times. If photodiodes fail to detect a state transition, the GPS system executes the change, ensuring increased system reliability and safety.

FEATURES

- *Triple night-state detection.*
- *12-channel GPS module.*
- *Relay contact for night activation.*
- *Synchronization output.*
- *RS485 output for GPS data frame acquisition.*
- *Status LEDs for operation check.*

MRAS

Technical Specifications

Power Supply:	12-24 Vdc.
Night Detection:	2 x photodiodes.
Configuration:	PC and RS485.
Communications:	Isolated RS485.
Signal	Relay contact 1NC and 1NA.
GPS Module:	12-channel GPS.
LEDs:	Status indicators.

One Fathom Bank Lighthouse - Strait of Malacca (Malaysia).

Specifications subject to change without previous notice.

MSM

Mediterráneo Señales Marítimas, S.L. / +34 96 276 10 22 / msm@mesemar.com / www.mesemar.com