



Flasher E863

Designed to provide highly reliable subsystem, the unit uses the latest surface mount and microcontroller technology to provide a compact, robust self-contained solid state device incorporating several new features

E863 flasher units are designed for switching both filament lamp and/or LED lanterns and for transmission of diagnostic and emergency messages via local area network (LAN). The flasher utilizes Pulse Width Modulation to achieve a very high degree of regulation of the effective voltage of the lantern .

The E863 flasher provides the user with a convenient, simple setting up by a service computer device that may be used in both stand alone and system applications. Special care has been taken to minimize the power consumption in the idle state which is essential when using the flasher in primary battery powered buoys.

Features

- Programmable automatic control of flashing
- Daylight-depending switching on and off of the flashing mode by a photosensor and sending the actual switching time messages to the monitoring and control centre
- Precision effective voltage regulated filament output
- Lampchanger or twin filament or LED-lantern operation
- Autosynchronisation by internal clock/calendar to be adjusted either by a GPS receiver or by any other flasher in the control and monitoring system
- Built-in monitoring and control LAN interface for the communication with other units
- Sending diagnostic and emergency messages to monitoring and control centre via LAN and communication controller
- Simple setting up and programming using a service computer



Specification

Input voltages	8 - 30V DC
Nominal voltage of the lamp	10.30V rms

Output power	2 - 100W
Current consumption in sleeping mode in the pause of flash in flash	1mA 1.2mA 6mA
Flash lenght	any multiples of 10ms up to 60.01s
Period time	any multiples of 20ms up to 655.35s
Character changing	using a service computer
Character stability	-20ppm
Stability of built-in clock	± 20ppm (without GPS correction)
Daylight control	delayed switching by external photosensor, delay programmable by service computer. Sending switching time messages to the center
Inputs	RS485, photosensor, control input of reserve units, voltage measurements
Outputs	two stage filament with automatic changeover to standby filament, RS485, control output of reserve units
Temperature range	-30°C to +55°C* (IEC 68-2-1, 2, 14)
Relative humidity	max 98% at +35°C (IEC 68-2-3)
Dimensions	83mm diameter, 52mm high
Weight	0.4kg

*) the temperature range can be optionally extended

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