




1000W Flasher E175

E175 is a microprocessor based unit for the control of high-power lighthouses with lanterns up to 1000W, to be used in the EKTA's 1000W lighthouse control system E602. It consists of a control unit, an 1kW DC/DC converter, a 50W DC/DC converter for secondary power supply, a 5V voltage stabilizer, and of Echelon LAN interface

Features

- Programmable automatic control of flashing and control of lampchanger
 - Precision effective voltage regulated filament output
 - Control of the secondary (reserve) system of the lighthouse
 - Daylight-dependent switching on and off of the flashing mode and sending the actual switching time messages to the monitoring and control centre
 - Control of reserve system of the lighthouse
 - Control of Diesel generator as a secondary energy supply
 - Autosynchronization by the internal clock/calendar to be adjusted either by GPS receiver or by any other flasher in the control and monitoring system. This feature can be used for the synchronization of flashing of leading lights
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- Built-in monitoring and control interface Echelon LAN for the communication with other units
 - Sending diagnostics and emergency messages to the monitoring and control centre via Echelon LAN and the communication controller (state of the power supplies, lamps, and lampchanger)
 - Simple setting up and programming using a service computer

Specification

Input voltages	110 - 160V DC (primary power supply) 13 - 15.5V DC (secondary power supply)
Nominal voltage of the lamp	110 Or 120V +3V, -1.5V
Output power	100 - 1000W

Current consumption (15V)	70mA from the secondary power supply
Flash/pause segment duration	(1...127)x(10...250)ms
Number of flash/pause segments	2 - 16
Stability of built-in clock	± 0.00005
Daylight control	delayed switching by external photosensor,
Inputs	±140V, 15V secondary power, Echelon LAN (I/O), photo- and temperature sensors, lampchanger signals
Outputs	110V 10A filament, +14V system power, control of reserve system, lampchanger motor
Temperature range	-40°C to +55°C* (IEC 68-2-1, 2, 14)
Relative humidity	max 98% at +35°C (IEC 68-2-3)
Dimensions	70x210x314mm
Weight	

E175-20012302