LM-854 Guardian
Remote Telemetry Unit

The LM-854 Guardian is a standalone, web based, alarm notification system. The system will monitor the airfield lights for failures when the lights are turned on. If a failure is detected, the monitor will report the alarm back to the web-based server via cellular communications. Alarm notifications are sent out via e-mail, pager, or voice call to any location.

Applications

General aviation airports are operated 24 hours a day but only manned during working hours.   A critical aspect of the airport's 24-hour operation is the airfield lighting. This includes the runway and taxiway lighting, the rotating beacon, and other navigational aids. This critical lighting infrastructure is unmonitored when it is needed the most. In the event of a failure, no one will know except until the next day. The airport only finds out about the failure after the fact. Either from a pilot's report or a during a safety inspection during the day. If the problem is intermittent, it may go for a much longer period time before being noticed.

Features

- *Immediate alarm reporting and optional updates every 15 minutes with the elite monitoring package*
- *Up to 11 separate lighting circuits can be monitored. Typical devices are Runway and taxiway lighting circuits. Rotating beacon, PAPIs, REILs, ODALs, Apron lights.*
- *Vault AC power monitoring.*
- *Photocell day/night operational counts and activation time accumulations.*
- *Pilot controlled lighting operational counts and activation time accumulations.*
- *Alarms notifications can be sent via voice phone call, text messaging or e-mail. Multiple response plans, schedules and user lists can be configured.*
- *Data is sent to the web server via wireless cellular communications. No phone line or hardwired network connections needed.*
- *Battery backup for operations during power loss.*
- *Web based operator interface and configuration. No external software required. A free phone app is available for monitoring from your smart phone.*

Specifications

Input Power	120VAC +/-10% @ 0.3A max; 12VDC Version: 12VDC +/-10% @ 2.1A max
Cellular Radio	4G LTE CAT-1/CAT-M1, OSMR
Access Key	Smart security key to identify personnel on site
Terminal Blocks	Removable style accepts #14-18 AWG solid or stranded wire
Operating Temp/ Humidity	-20/150 Deg F / 0-90% RH Non-condensing
Backup Battery	Internal 12VDC Sealed Lead Acid, 800mAH, Rechargeable
Dimensions	9.0"H x 9.5"W x 4.0"D (dimensions do not include an antenna attached)
SD Card Format	FAT 16
LCD Display	Backlit 4 x 20 lines
Keypad	(8) navigation buttons
Analog Inputs	(4) 4-20mA, input 1 isolated, 10 bit resolution
Relay Outputs	(4) 20A @ 120VAC resistive
Digital Inputs	(14) Universal Inputs accept 12 VAC/VDC – 120 VAC/VDC
Protections	US Patent #7,228,129 and #7,778,633

Ordering Information

Model	Description			
LM854	Guardian Airfield Lighting Monitor			
	Enclosure Options			
	PM	Panel Mounted – No Enclosure, Type 1		
	EN	Type 4X, Weather-Proof Enclosure, Solid Opaque		
	ENCV	Type 4X, Weather-Proof Enclosure, See-Through Cover		
		Power Supply		
		12	12 Vdc	
		120	120 Vac	

LM854	ENCV	120

Example: LM854-ENCV-120   Guardian in Weatherproof enclosure w/clear cover and 120Vac power

How OmniSite Works

OmniSite relies on a combination of cellular telephone and web based technology. The Crystall Ball is installed at your remote equipment and sends a wireless signal to the local cellular tower.

That signal is bounced to OmniSite's web interface, where you can log on - any day, any time, from any computer - and see how your remote equipment is operating. A "call out" list is set up online, so that when an alarm is triggered, identified operators are contacted immediately.

Because OmniSite engineers recognize today's fast-paced busy world, that notification comes by way of text message, email or call to your cellular or hard-wired phone.