



ELM-Series Monitor

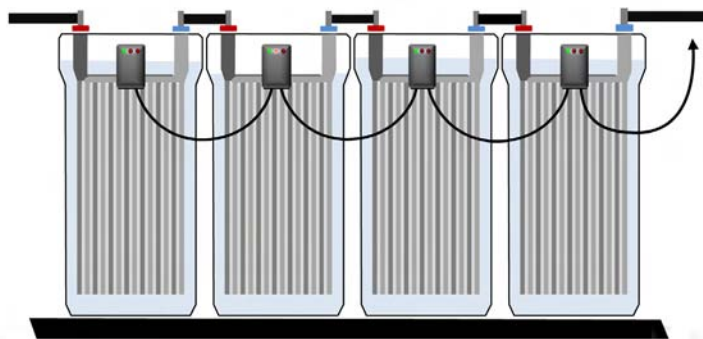
Product Overview

The ELM-Series is a reliable dual sensor system that monitors the electrolyte level and temperature of individual flooded batteries. Utilizing low cost, easy to install sensors, the system will alarm on low electrolyte level or higher than normal temperature. The sensors are simply and securely attached, either directly to the jar, or via an optional clip which allows the sensor to be removed and re-used if the jar should require replacement.

In the condition of a low electrolyte or temperature alarm, the sensors communicate to the system monitor and the system monitor activates a changeover relay output while simultaneously activating the appropriate alarm LED lights. In the event that four or more jars fall to an alarm level, the monitor will trigger a group alarm in addition to the single jar alarm. The alarm contacts are volt-free and can be made as 'make-on-alarm' or 'fail-safe' mode (giving warning of a supply failure) and may be linked in to any facilities management or alarm system for remote monitoring.

Features

- Low cost monitor for electrolyte level & jar temperature monitoring
- Alarm contacts for external alarming
- LED lights on monitor and sensors for visual alarming on-site
- Easy to install, site survey not required for order
- Applicable to any flooded battery system regardless of voltage & amp-hour
- Utilized commonly available cabling between sensors for easy sourcing of additional materials



ELM-Series Battery Jar Installation

Technical Specifications

Battery Types:	Compatible with all flooded battery types
Alarm Activation:	Activation at 35°C (95°F), $\pm 1^\circ\text{C}$ (1-2°F)
Level Accuracy:	$\pm 5\text{mm}$ (0.2") above or below line label
Input Voltage:	12V DC +/- 10%, 1 Amp
Output Relays	(2) SPDT volt-free contact relays for LEVEL (2) SPDT volt-free contact relays for TEMP
Dimensions: (L x W x D)	Monitor: 176 x 80 x 51 mm (3.3 x 1.6 x 3 in) Sensor: 57 x 37 x 16 mm (1.5 x 0.8 x 0.4 in) Cables: 1.25mm pitch at desired length
Compliance:	UL, CE

LED Indicators for:

- 1+ Jars low level
- 4+ Jars low level
- 1+ Jars critical temperature
- 4+ Jars critical temperature
- Power failure

Ordering Information

No.	Model #	Description
1	ELM-Series ⁽¹⁾	Battery Electrolyte Level Monitor (1) monitor and number of sensors per jars / cells

1) Model number varies per number of jars (Ex. ELM-60C for system with 60 jars)