

FALCON series Battery monitoring



The reliability and service continuity of the power supply system are getting more and more critical for our daily life.

Any market and industry sector is governed and controlled by system whose service continuity is essential. In case of emergency, the back-up power is generally supplied by a battery of lead accumulators, and constant maintenance and control ensure that the system will always be efficient and reliable. Lever, always striving to meet the actual needs and requirements of its customers offers a new and innovative monitoring system for lead electric accumulators.

Building on its experience and its high technological know-how, Lever has manufactured a versatile equipment allowing to monitor the main functional parameters of a battery, providing valuable support for preventive maintenance operations and for the immediate identification on any failures.

This system allows a new approach to battery monitoring and control: it can be compared to a technician who on a daily basis checks the accumulators, pointing out any faults, thus drastically reducing the maintenance voltage reading time. With the new monitoring system, Lever has developed a truly innovative product, reliable and featuring an interesting price/performance ratio.

Product pluses

- It checks the operating parameters
 - It points out and signals any faults
 - It is an effective preventive maintenance system
 - It helps ensuring that the battery is always in good working order
 - It reduces/eliminates the need for the normal maintenance processes
 - It helps reducing the costs associated with battery maintenance and management
- It ensures trouble-free service

Optional accessories

- Hall-effect sensor for 50A current detection, available in various sizes up to 1500A
- PT 100 temperature probes
- Isolated interface for data transmission with RS 232 /422/485

Alarms

They can be programmed by the user and provide a visual indication through the display; they can be linked to external devices through a dry electrical contact. In particular they detect: battery failure, component short-circuit, minimum voltage, maximum voltage, maximum environment temperature, maximum battery temperature.

Technical specifications

- Power supply: from mains or battery, with three voltage ranges between 24 and 480 Volt (d.c. or a.c.)
- Input power when in stand-by: 2.2 Watt (max 4 Watt with alarms on)
- Operating temperature: -20 +50°C
- Number of channels for battery voltage detection: twelve
- Detection voltages for each channel: 2 to 40 Volt d.c.
- Temperature detection range: -40 to +80°C
- Interfacing devices: general alarm dry contact

Viewable data

- Total battery voltage
- Voltage of each channel
- Charging and discharging current (if equipped with current probe)
- Deviation of each channel voltage from the average battery voltage
- Alarms, if any
- Date and time
- Environment temperature (if equipped with probe)
- Battery temperature (if equipped with probe)