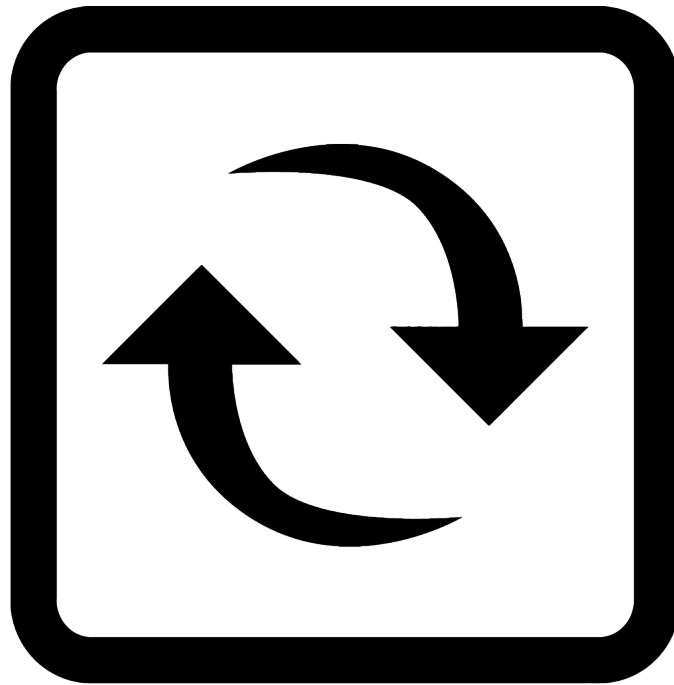


PWR-BAT-SYS



INFRASENSING

Sensor Application Guide

I. Overview

Our Battery Monitoring System is designed for monitoring lead acid, lithium-ion or nickel battery blocks and strings.

This document aims to guide the user in installing our PWR-BAT-SYS in your facilities.

You may visit the sensor page through:

https://infrasensing.com/sensors/sensor_battery_monitoring_system.asp

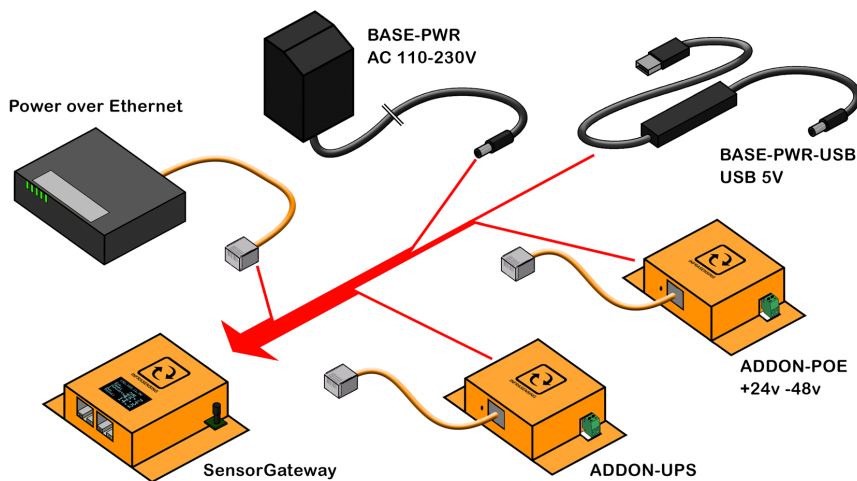
II. What you need

- Power source (PoE or 12V DC)
- BASE-WIRED
- LAN cable
- PWR-BAT-STRING
- PWR-BAT-CELL
- PWR-BAT-CELL cable
- Current transducer
- Thermistor probe

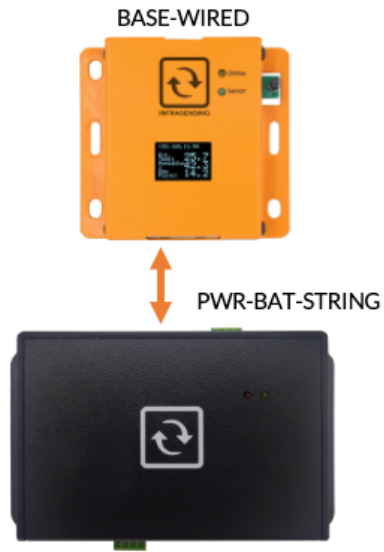
III. Installation

Important Note. Make sure that there is no power being supplied to the system to prevent any electrical-related accidents.

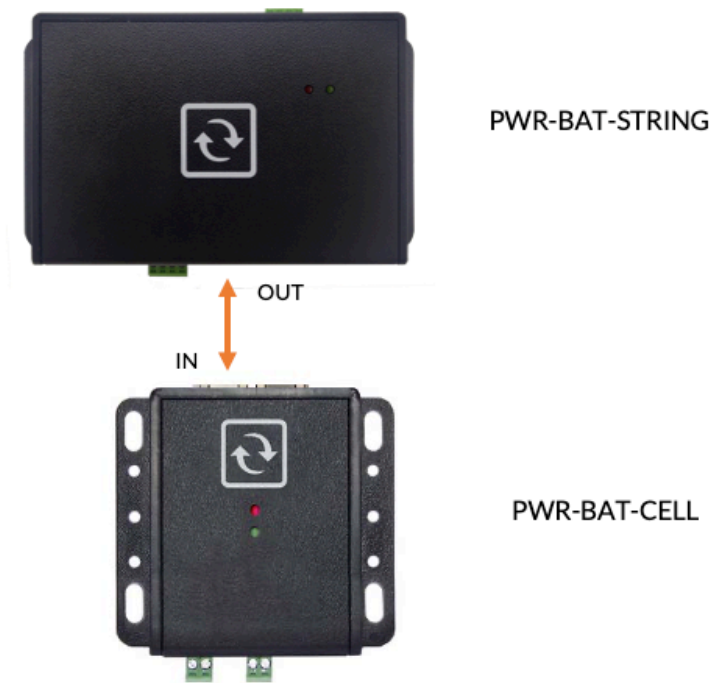
3.1. Supply power to the BASE-WIRED via PoE(power over ethernet or 12V DC adapter/BASE-PWR)
Other power options include BASE-PWR-USB, ADDON-POE, and ADDON-UPS.



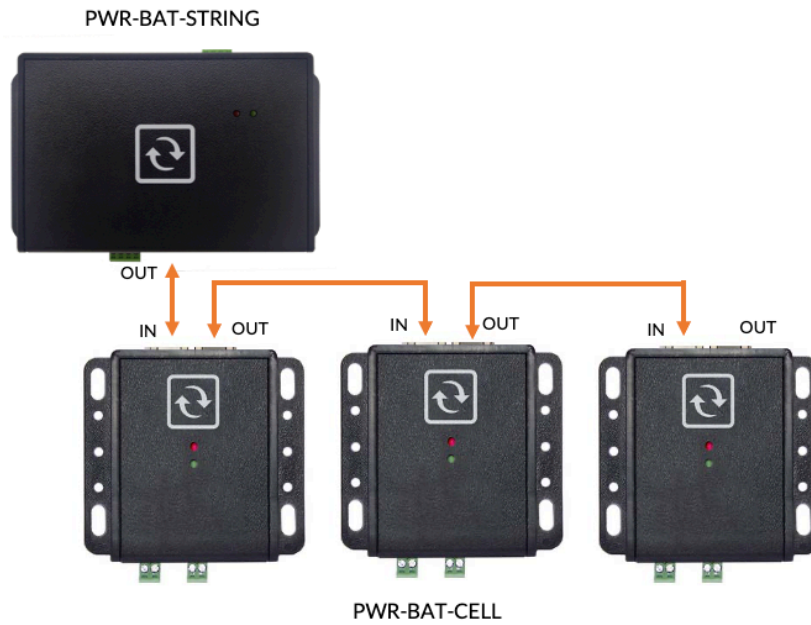
3.2. Connect the BASE-WIRED to the PWR-BAT-STRING.



3.3. Connect the OUT port of the PWR-BAT-STRING to the IN port of the PWR-BAT-CELL.

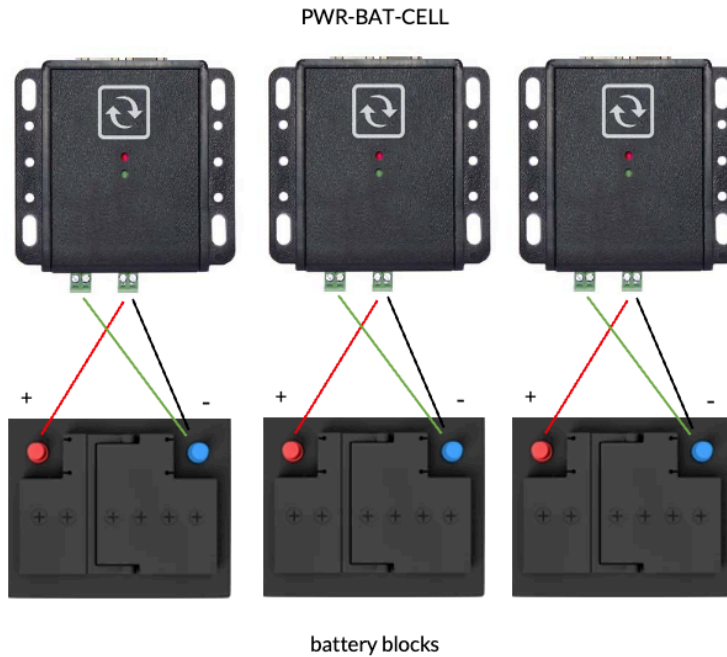


3.4. For connecting more than one PWR-BAT-CELL, just connect the OUT port of the first PWR-BAT-CELL to the IN port of the next PWR-BAT-CELL, repeat this process until the last PWR-BAT-CELL.



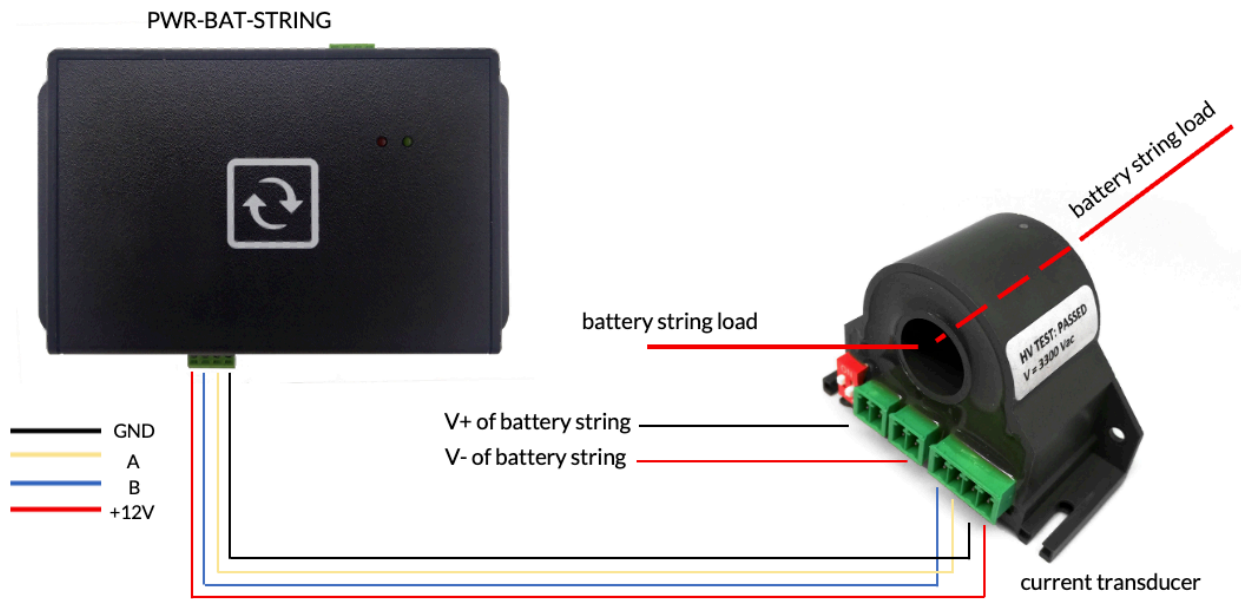
Note. You can connect up to 15 PWR-BAT-CELL to the string.

3.5. Connect the PWR-BAT-CELL to the battery blocks using terminal block connector.



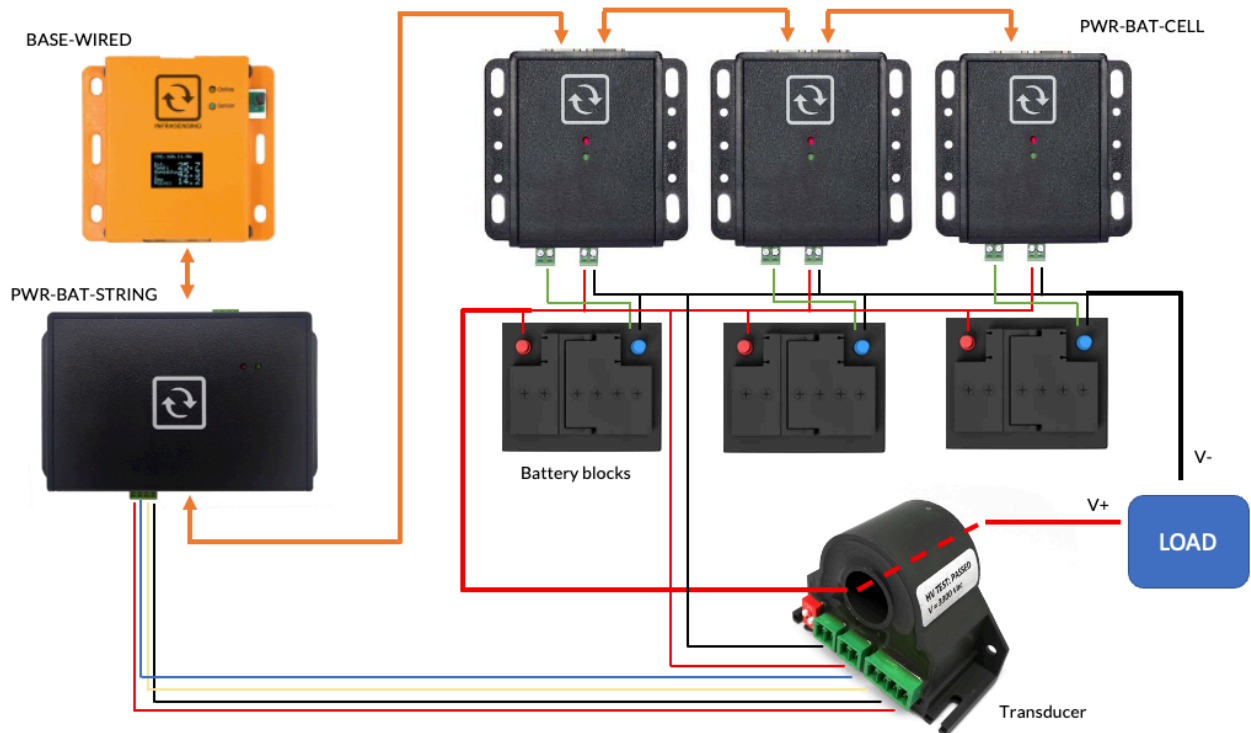
- Red - positive
- Black - negative
- Green - thermistor probe

3.6. Connect the PWR-BAT-STRING and the battery string (positive and negative) to the current transducer using the configuration below:



Note. The battery string load must pass through the transducer

3.7. The overall configuration should look like this sample:



Note. Positive of first PWR-BAT-CELL connected to V+ of Transducer
 Negative of last PWR-BAT-CELL connected to V- of Transducer