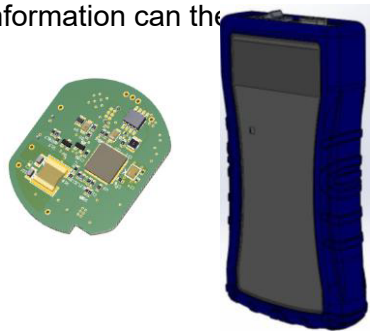
Coulomb Counter Technology

What is Electrochem's Coulomb Counter technology?

Electrochem's Coulomb Counter technology can be added to most battery packs to help gauge the capacity of a pack throughout its life. The device monitors the amount of current being drawn from the battery as well as other essential variables. Then, through a series of computations, the counter can estimate the capacity used or capacity remaining of the battery. That information can the be read using a data cable and software or with a ruggedized handheld reader designed specifically for in-field use.



In order to meet all of your potential battery needs, this technology is purposefully designed to take minimal space within a battery pack and is rated to operate from temperatures as low as - 40°C to as high as + 150°C.

What are the benefits of Electrochem's Coulomb Counter technology?

Estimating the remaining capacity of a battery pack can be very subjective and prone to error. Often it involves relying on prior experience or on calculations dependent on a number of manually collected variables that must be recorded throughout the use of the device. This method not only adds unnecessary complexity to the user's job, but also leaves room for potentially costly mistakes that can occur as a result of human error, misunderstandings, and inexperience.

Electrochem's Coulomb Counter technology removes that distraction and eliminates the chances that this essential information is recorded incorrectly. The Coulomb Counter is built directly into the battery pack ensuring any current drawn from the battery is recorded. It is impossible for a battery to be used without the counter recording it. Operators no longer need to keep track of usage (i.e. log sheets), and the risk of a device running out of power in the middle of a project is significantly reduced.

Why choose Electrochem?

Electrochem is a trusted leader in battery technology focused on enhancing lives worldwide by providing superior power solutions that enable the success and advancement of our customers' critical applications. Our technological expertise and heritage for superior quality, reliability, and innovation are part of our DNA; deeply rooted from our origins when Wilson Greatbatch developed the battery for the first implantable pacemaker. Whether our products are being used to monitor potential environmental catastrophes, support troops on the battlefield, or explore geologic formations miles below the earth's surface, one thing is constant: failure is not an option.

To learn more about this exciting technology or other technologies we offer, please reach out to your Electrochem Sales Representative or email us directly at Marketing@ElectrochemSolutions.com.