

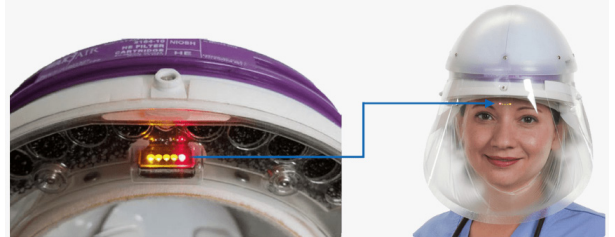
## Voltage Measurements In Effective Li-Ion Battery Inventory Management

The advent of lithium-ion batteries has transformed energy storage across various applications, from smartphones to electric vehicles. MAXAIR, an early adopter of this technology since 2006, has seamlessly integrated lithium-ion batteries into its systems. These batteries play a crucial role in safeguarding against airborne particulates, underscoring the importance of their careful management to ensure optimal performance and readiness.

The MAXAIR Ensure Readiness Program, accessible at [maxair-systems.com](http://maxair-systems.com), guides users in the proper handling of MAXAIR Li-Ion Batteries, offering essential warnings and precautions. The program also features a Battery (and Charger) trade-in initiative, encouraging customers to replace aging batteries before they become ineffective.

The MAXAIR Helmet's integrated Safety LEDs present a Heads-Up Display (HUD) that remains visible during use, indicating battery charge status and safe airflow. The LED display provides an estimate of remaining battery charge in four approximate ranges:

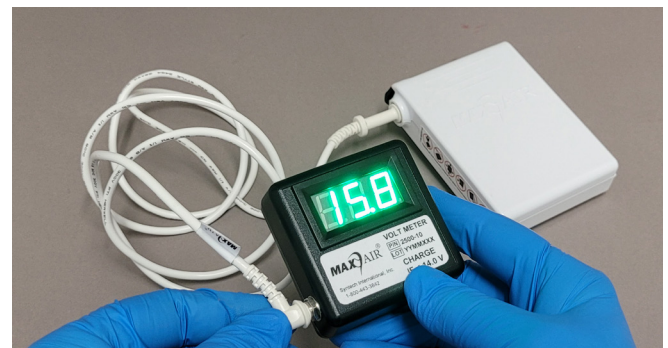
- 100%-75% (3 green)
- 75%-50% (2 green)
- 50%-25% (1 green)
- <25% (1 red)



To further support the Ensure Readiness Program, MAXAIR Systems introduces the custom-designed digital Volt Meter (Catalog Number 2500-10). This meter has a specially designed connector that easily interfaces with MAXAIR Systems 2500-36TSC and 2500-37TSC Li-Ion Batteries, allowing for a quick and accurate measurement of the battery's actual charge status at any given time.

Key Uses of the 2500-10 Volt Meter:

1. **Accurate Recharge Assessment:** As Li-Ion Batteries lack memory, routine recharging is safe. The 2500-10 Volt Meter facilitates quick checks on multiple batteries, accurately identifying those in need of recharging, emphasizing regular recharging over complete discharge.
2. **Optimizing Long-Term Storage:** For optimal battery life, it's recommended to store Li-Ion Batteries at 40% to 60% capacity. The 2500-10 serves as a convenient tool to estimate and maintain the capacity level of stored batteries, particularly during periods of anticipated non-use or emergency preparedness.
3. **Early Anomaly Detection:** While Li-Ion Batteries are generally reliable, periodic voltage measurements with the 2500-10 may offer early detection of anomalies or irregularities in battery behavior, helping prevent potential failures.



2500-25 Volt Meter connected to 2500-37TSC Li-Ion Battery

Incorporating simple, fast, and cost-effective voltage measurements with the MAXAIR 2500-10 Volt Meter into your Ensure Readiness Program further supports reliably and efficiently protecting your staff and patients, with every breath.