

Smart Baby Monitor



Technical solution:

Primary Lithium Button Cell Technology



Lithium Button Cell

Smart Baby Monitor

The smart baby monitor system is the next generation of babysitting. It can be connected to the smartphone and will provide you with data like child's heart rate, skin temperature and movement. At the same time it tracks the room's ambient temperature, humidity, and light levels. It is also capable to learn and can predict when your baby will wake up.

Battery challenge

Safety is one of the biggest challenges for wearable medical and healthcare devices. The battery must ensure continuous safety and provide enough energy at the same time to run the application. For this kind of application a prolonged lifetime is expected as well.

For more information, please visit our website:

<https://www.varta-ag.com/en/industry/product-solutions/lithium>

Characteristics	Lithium Button Cell
Type	CR 2025 / CR 2032
Voltage	3V / 3V
Capacity	165 mAh / 230 mAh
Dimensions	2,5g / 3g weight 20mm / 20mm diameter 2,5mm / 3,2mm height
Features	<ul style="list-style-type: none"> Self-discharge rate < 1% at room temperature Storage life > 10 years Operating life > 10 years

Primary Lithium Button Cells

The lithium manganese dioxide cell chemistry was one of the first solid cathode cells commercially developed and is still the most widely used battery system today. These cells offer an excellent shelf life, wide operating temperature range, low self discharge rates and broad range of different sizes and capacities. Potential applications for these cells are devices in telecommunication, metering, instrumentation, sensoric and other portable equipment. Based on the outstanding energy density, cell performance and reliability these cells have been able to meet the requirements of our customers worldwide.

- High open circuit and load voltage
- High Energy density (400Wh/kg or 600Wh/l)
- Low self discharge for long storage and operating time
- Wide operating temperature range (-20° C up to 70° C)
- High pulse load capability
- UL Recognition
- Bare cells and customer specific battery solutions