

# WE'RE NOT JUST CREATING REMOTE CONTROLS, **WE'RE CREATING A SAFER WORKPLACE**

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Battery MINI 3.6V 2.5Ah NiMH



## Battery MINI SPECIFICATIONS

|                                                                                                  |                                                                                                                                                     |                            |                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HOUSING</b>                                                                                   | <ul style="list-style-type: none"> <li>Impact Resistant Polymer</li> </ul>                                                                          | <b>EXTINGUISHING AGENT</b> | <ul style="list-style-type: none"> <li>Water, CO<sub>2</sub></li> </ul>                                                                                               |
| <b>DIMENSIONS</b>                                                                                | <ul style="list-style-type: none"> <li>H: 55.5mm x W: 60mm x D: 22.1mm</li> <li>H: 2.19" x W: 2.36" x D: 0.87"</li> </ul>                           | <b>CAUTION</b>             | <ul style="list-style-type: none"> <li>Do not short circuit</li> <li>Do not crush</li> <li>Do not heat or incinerate</li> <li>Do not immerse in any liquid</li> </ul> |
| <b>WEIGHT</b>                                                                                    | <ul style="list-style-type: none"> <li>Max. 115g (0.25 lbs.)</li> </ul>                                                                             | <b>RECYCLE</b>             | <ul style="list-style-type: none"> <li>To be recycled and disposed properly</li> </ul>                                                                                |
| <b>ENVIRONMENTAL PROTECTION</b>                                                                  | <ul style="list-style-type: none"> <li>Min IP 65</li> </ul>                                                                                         |                            |                                                                                                                                                                       |
| <b>DISCHARGING TEMPERATURE/<br/>STANDARD CHARGING TEMPERATURE<br/>RAPID CHARGING TEMPERATURE</b> | <ul style="list-style-type: none"> <li>-10C to +55C (14F to +131F)</li> <li>0C to +40C (32F to +104F)</li> <li>10C to +35C (50F to +95F)</li> </ul> |                            |                                                                                                                                                                       |
| <b>BATTERY RATING/TYPE</b>                                                                       | <ul style="list-style-type: none"> <li>3.6V 2.5Ah NiMH rechargeable IEC62133 certified battery pack</li> </ul>                                      |                            |                                                                                                                                                                       |
| <b>HUMIDITY RANGE</b>                                                                            | <ul style="list-style-type: none"> <li>0 to 97% max. non-condensing</li> </ul>                                                                      |                            |                                                                                                                                                                       |
|                                                                                                  |                                                                                                                                                     |                            |                                                                                                                                                                       |
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### ABOUT HETRONIC

Since 1982 Hetronic has delivered the finest, most reliable industrial Safety Radio Remote Control user interface solutions for process and equipment control applications in the industry. We have shipped over 500,000 safe and reliable transmitter/ receiver solutions to customers around the world. Our global network of service locations, in over 50 countries, provides expert service, support and sales when customers need safe, secure and reliable remote control solutions. Contact a Hetronic expert and learn more at [www.hetronic.com](http://www.hetronic.com)



# BATTERY SAFETY & HANDLING

To ensure proper use of the battery and prevent hazards, please read this manual carefully before handling.

**CRM data:** Nickel (Ni) (35.5%), Nickel Hydroxide (Ni(OH)<sub>2</sub>) (28.5%), Cobalt (Co) (7.6%), Lithium Hydroxide (LiOH) (0.3%).

**Extinguishing agent:** Water, CO<sub>2</sub>

## 1. Cautions in Use

- Do not expose the battery to direct sunlight or dispose of it in fire.
- Do not put the battery in a charger or equipment with wrong terminals connected. •  
Use only the cable and connector included in the battery, do not modify
- Avoid short-circuiting the battery.
- The battery is for exclusive use with the Flaem product according to the product manual
- Avoid excessive physical shock or vibration.
- Do not crush.
- Do not heat or incinerate.
- Do not disassemble or deform the battery.
- Do not immerse in water.
- Do not use the battery mixed with other different make, type, or model batteries.
- Keep out of the reach of children.

## 2. Charge and Discharge

- Battery must be charged in appropriate charger only.
- Never use a modified or damaged charger.
- Do not leave battery in charger over 24 hours.

## 3. Storage

- Store the battery in a cool, dry and well-ventilated area.

## 4. Disposal

- Regulations vary for different countries. Dispose of in accordance with local regulations.

# MATERIAL SAFETY DATA SHEET

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product Name : Ni-MH Battery

Volts : 1.2 V/cell

Chemical System : Nickel Metal Hydride.

Recharge : Yes

## SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient                              | CAS No.    | EC No.    | Weight(%) |
|-----------------------------------------|------------|-----------|-----------|
| Nickel (Ni)                             | 7440-02-0  | 231-111-4 | 35.5      |
| Nickel Hydroxide (Ni(OH) <sub>2</sub> ) | 12054-48-7 | 235-008-5 | 28.5      |
| Cobalt (Co)                             | 7440-48 4  | 231-158-0 | 7.6       |
| Lithium Hydroxide (LiOH)                | 1310-65 2  | 215-183-4 | 0.3       |

Note: The above information is provided for the user's information only.

## SECTION 3. HAZARDS IDENTIFICATION

Hazards Identification: This substance is considered to be non-hazardous for transport

Caution: Avoid contact and inhalation.

Skin contact: Exposure to electrolyte contained inside the battery may result in chemical burn. Exposure to nickel may cause dermatitis in some sensitive individuals.

Eye contact: Exposure to electrolyte contained inside the battery may result in severe irritation and chemical burn

## SECTION 4. FIRST AID MEASURES

Under normal conditions of use, the battery is hermetically sealing

Ingestion: Swallowing a battery can be harmful

Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. If battery or open battery is ingested, do not induce vomiting or mouth or give food or drink. Seek medical attention immediately. call national battery ingestion hotline (202-625-333) for advice and follow-up.

Inhalation: Contents of an open battery can cause respiratory irritation hypersensitivity to nickel can cause allergic pulmonary asthma. Provide fresh air and seek medical attention.

Skin contact: Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

Eye contact: Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

## SECTION 5. FIRE FIGHTING MEASURES

If fire or explosion occurs when batteries are on charge, shut off power charger.

In case of fire where nickel metal hydride batteries are present, apply a smothering agent such as METL-X, sand, dry ground dolomite, or soda, ash, or flood the area with water. A smothering agent will extinguish burning nickel hydride batteries. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving nickel metal hydride batteries can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agent is recommended.

Fire fighters should wear self-contained breathing apparatus. Burning nickel metal hydride batteries can produce toxic fumes including oxides of nickel, cobalt, aluminum, manganese, lanthanum, cerium, neodymium, and praseodymium.

Special fire fighting procedures: exposure to temperatures of above 212 F (100°C) can cause venting of the liquid electrolyte.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

To cleanup leaking batteries:

Ventilation Requirements: Room ventilation may be required in area where there are open or leaking batteries. Eye

Protection: Wear safety glasses with side shields if handling an open or leaking battery Gloves: Use neoprene or natural rubber gloves if handling an open or leaking battery. Battery materials should be collected in a leak-proof container.

## SECTION 7. HANDLING AND STORAGE

Storage: Store in a cool, well-ventilated area, elevated temperature can result in shortened battery life.

Mechanical containment: Never seals or encapsulate nickel metal hydride battery.

Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high-pressure rupture.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. However, this battery is capable of delivering very high short circuit currents. Prolonged short circuits will cause high cell temperatures, which can cause skin burns. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, and metal covered tables or metal belts used for assembly of batteries into devices.

If soldering or welding to the battery is required, use of labeled batteries is recommended.

Do not open the battery. The negative electrode material may be pyrophobia. Should an individual cell from a battery become disassembled, spontaneous combustion of the negative electrode is possible. This is much more likely to happen if the electrode is removed from its metal container. There can be a delay between exposure to air and spontaneous combustion.

Charging: This battery is made to be charged many times. Because it gradually loses its charge over a few months, it is good practice to charge battery before use. Use recommended charger. Improper charging can cause heat damage or even high pressure rupture. Observe proper charging polarity.

WARNING: (1) KEEP AWAY FROM SMALL CHILDREN. IF SWALLOWED, PROMPTLY SEE DOCTOR.

HAVE DOCTOR PHONE (202) 625-3333 COLLECT. (2) CHARGE ONLY WITH SPECIFIED CHARGERS ACCORDING TO DEVICE MANUFACTURE'S INSTRUCTIONS. DO NOT OPEN BATTERY, DISPOSE OF IN FIRE

OR SHORT CIRCUIT -MAY IGNITE, EXPOSED, LEAK OR GET HOT CAUSING PERSONAL INJURY.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements: Not necessary under normal conditions:

Respiratory Protection: Not necessary under normal conditions.

Eye Protection: Not necessary under normal conditions. Gloves: Not necessary under normal conditions.

## SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling. Nickel metal hydride batteries can also be collected as part of the Rechargeable Battery Recycling Corporation (RBRC) program.

## SECTION 14. TRANSPORT INFORMATION

Nickel metal hydride button cells/batteries are considered to be "dry cell" batteries and are unregulated for purpose of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation

Administration (ICAO), International Air Transport Association (IATA) and the International Maritime Organization (IMO), the "Accord Europeen Relatif au Transport International des Marchandises Dangereuses par Route"(ADR) and the "Reglement concernant le transport international ferroviaire de marchandises Dangereuses" (RID) .

IATA DGR: Special Provision A 123: Examples of such batteries are : alkali-manganese, zinc-carbon, nickel-metal hydride and nickel-cadmium batteries. Any electrical battery. . having the potential of a dangerous evolution of heat must be prepared for transport as to prevent (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals.....) is forbidden from transport, and (b) accidental activation. The words "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air

Waybill as required by 8.2.6, when an Air waybill issued. "In addition in the 56<sup>th</sup> edition Special Provision A1 99 is a new special provision assigned against the entry for Batteries, nickel-metal hydride. The special provision identifies that Class 9 UN 3496 only applies in sea transport and that provided that nickel-metal hydride batteries are prepared in accordance with the special provision they are "not restricted" in air transport.

IMO, IMDG Code: Special Provision 963: "Nickel-metal hydride button cells or nickel-metal hydride cells or batteries packed with or contained in equipment are not subject to the provision of this Code."

EU (ADR/RID): Chapter 3.2 Table A: "Batteries, nickel-metal hydride, UN3496, not subject to ADR"

USA: 49 CFR S 172.102 Special Provision 130 and 340: Nickel-metal hydride button cells/batteries are not subject to requirements of this subchapter except for the following... ."Batteries and battery-powered device(s) containing batteries must be prepared and packaged for transport in a manner to prevent: (1) A dangerous evolution of heat; (2) Short circuits, including but not limited to the following methods: (i) Packaging each battery or each battery powered device when practicable, in fully enclosed inner packaging made of non-conductive materials; (ii) Separating or packaging batteries in a manner to prevent contact with other batteries, devices or conductive materials (e.g. metal) in the packaging"....

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.



## EU DECLARATION OF CONFORMITY

Issuer:

Hetronic Malta,  
A Division of Methode Electronics Malta Ltd.  
Triq I-Awdituri, Zone 4,  
Central Business District,  
Birkirkara CBD 4070  
Malta

**Object of Declaration:** NiMH Battery Pack, Mini NiMH 3.6V 2.5Ah

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the following Union legislation:

- Regulation (EU) 2023/1542 of the European Parliament and of the Council concerning batteries and waste batteries.

The conformity assessment is supported by the following technical documentation:

- EN 62133-1:2017
- Supplier technical documentation
- Product technical specification

Birkirkara, Malta, July 28, 2026

Stefan Svensson  
Global Engineering Manager, Hetronic





中国认可  
国际互认  
检测  
TESTING  
CNAS L16465

Version: 1.0

## TEST REPORT IEC 62133-1

**Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications -**

### Part 1: Nickel systems

Report Number.....: ECTBEAB08C059

Date of issue.....: 2026-01-15

Total number of pages.....: 22 pages

Tested by (name + signature).....: Hanink.Tian

Checked by (name + signature).....: Eddie.Shi

Approved by (name + signature)....: Eric.Ren



Applicant's name.....: Hetronic Malta

Address.....: A Division of Methode Electronics Triq L-Awdituri Zone4 Central Business District Birkirkara CBD4070 Malta

#### Test specification:

Standard.....: IEC 62133-1: 2017

Test procedure.....: Type Test

Test result.....: Pass

Non-standard test method.....: N/A

Testing laboratory.....: Shenzhen ECT Testing Technology Co.,Ltd

Address.....: B121,B202,B206-1, Block A.B, 107 Chuangzhi Park, Huiju Xinqiao, No.18, Shangnan Shangliao Industrial Road, Shangliao Community, Xinqiao Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Testing location.....: As above

Test item description.....: Ni-MH Battery

Trade Mark.....: N/A

Manufacturer.....: Methode Electronics Egypt  
Methode Electronics Egypt Ltd Nasr City, Public Free Zone Lot No 10&11, Block G, Cairo, Egypt

Model/Type reference.....: Ni-MH 3.6V/2.5Ah

Ratings.....: 3.6V, 2.5Ah, 9Wh

#### Note:

*This report shall not be reproduced except in full, without the written approval of Shenzhen ECT Testing Technology Co.,Ltd  
This report may be altered or revised by Shenzhen ECT Testing Technology Co.,Ltd personnel only, and shall be noted in the revision section of the report. The test result in the report only apply to the tested samples.*

**List of Attachments (including a total number of pages in each attachment):**

Attachment 1: Photo documentation (19 to 22 pages).

**Summary of testing:****Tests performed (name of test and test clause):**

cl. 7.1 Charging procedure for test purposes;  
cl. 7.2.1 Continuous low-rate charging (Cells);  
cl. 7.2.2 Vibration (Cells and Batteries);  
cl. 7.2.3 Case stress (Batteries);  
cl. 7.2.4 Temperature cycling (Cells and Batteries);  
cl. 7.3.1 Incorrect installation (Cells);  
cl. 7.3.2 External short circuit (Cells and Batteries);  
cl. 7.3.3 Free fall (Cells and Batteries);  
cl. 7.3.4 Mechanical shock (Cells and Batteries);  
cl. 7.3.5 Thermal abuse (Cells);  
cl. 7.3.6 Crushing of cells (Cells);  
cl. 7.3.7 Low pressure (Cells);  
cl. 7.3.8 Overcharge (Cells and Batteries);  
cl. 7.3.9 Forced discharge (Cells).

Tests are made with the number of cells and batteries specified in IEC 62133-1: 2017 Table 1.

**Testing location:**

**Shenzhen ECT Testing Technology Co.,Ltd**  
B121,B202,B206-1, Block A.B, 107 Chuangzhi Park, Huiju Xinqiao, No.18, Shangnan Shangliao Industrial Road, Shangliao Community, Xinqiao Subdistrict, Bao'an District, Shenzhen, Guangdong, China

**Summary of compliance with National Differences (List of countries addressed):**

N/A

☒ **The product fulfils the requirements of EN 62133-1: 2017**