



Important Safety Information

:TimeTablet / Time Clock

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Introduction

Purpose of this document:

- Ensure devices are transported, stored, installed and used under safe operating conditions to minimise or mitigate the risk of potential fire, electrical, chemical, environmental, damage or injury hazard;
- Maximise the useable life of your TimeDock hardware.

Upholding warranty:

TimeDock makes no claim to uphold warranty under such conditions that did not adhere to best practise guidelines. To ensure manufacturer-responsible faults are covered under warranty, please read and understand this document before proceeding.

If unable to meet the guidelines within this document, and have not yet installed or adversely affected the resale ability of the product, please contact us to discuss whether you are eligible for a full or partial return/refund on the product.

Product liability disclaimer:

In no event shall TimeDock or any of its constituents be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever, arising out of or connected with the use or misuse of our products.

Installation

TimeDock devices should be installed indoors, in conditions considered generally acceptable for computing devices. For example, in a temperature-stable location, out of reach from direct all-day sunlight or overheating.

Indoors:

Normal levels of dust & wear are acceptable. Excessive metal dust may have an adverse effect on the magnetic reader, sensors, or electrical connections.

Do not put within direct contact of sparks, flames, concentrated heat sources or extreme magnetic or electromagnetic influences.

Outdoors:

TimeDock devices are not designed to be installed, or used, outdoors. Consider using our mobile app for an outdoor solution. Outdoor use will void all warranty.

In Vehicles:

TimeDock devices mounted within vehicles should have the battery removed, by our manufacturer, and subsequently connected to the vehicle accessory power circuit by an authorised automotive electrician.

Vehicle cabs can be susceptible to overheating, that can encroach upon or exceed the recommended safe operating temperature or safe storage temperature of the device.

Do not mount in obstruction of safe vehicle operation. Avoid mounting in direct sunlight.

Temporary use of TimeDock device in-cab:

Factor	Consideration
Placement	Place securely, to avoid knocks and damage, in a shaded part of the vehicle i.e. in a storage box, inside a seat pocket or in the center console. Do not mount to windows or windscreen.
Sunlight	Direct sunlight is dangerous for tech devices. Make sure your device is positioned in shade.
Operating Temperature	0°C - 45°C
Power source	Use DC 12V power. If overheated, disconnect power and leave device in a dry, cool place, for 30 minutes before turning on. Do not refrigerate.
Unattended	Turn screen off when leaving vehicle short term. Turn device off if leaving for longer periods.

Permanent use of TimeDock device in-cab:

Factor	Consideration
Placement	Do not mount to windows or windscreen, or dashboard area. Recommend securing lower down, or inside a non-metallic storage box for protection from overheating. Avoid distraction or interference with vehicle operation.
Sunlight	Direct sunlight is dangerous for tech devices. Make sure your device is positioned in shade.
Operating Temperature	0°C - 45°C
Power source	Battery should be removed by the manufacturer, or an authorised electrician, for long term exposure in environments with high temperature fluctuations. Overheating could cause ignition or explosion.
Unattended	Turn device off when leaving vehicle.

Important safety information

WARNING: Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to your TimeDock devices or other property. Read all the safety information below before using any TimeDock electrical products.

Handling:

Handle your TimeDock equipment with care. It is made of metal, glass and plastic and has sensitive components inside. Some equipment, such as TimeTablet, contain a battery that can be damaged if dropped, burned, punctured, crushed, otherwise affected by electrical factors, or if it comes into contact with liquid. If you suspect damage to any device or battery, discontinue use immediately, as it may cause overheating or injury.

Repairing:

Do not open or attempt to repair TimeDock devices yourself. Disassembly may damage it, or cause injury. If a device is damaged, dispose mobile and tablet based devices at a suitable disposal specialist or drop off point.

Modifying:

Do not attempt to modify the internal or external workings of any TimeDock devices. Doing so may result in malfunction, increased risk of malfunction or unintended harm to equipment or personnel.

Battery:

TimeDock devices contain, unless prior removed by our manufacturer, a Polymer Lithium Battery. Improper replacement or repair could damage the battery, causing overheating, fire or result in injury. The battery must be recycled or disposed of separately from general waste. Do not incinerate the device or battery.

Distraction:

TimeDock devices are not intended to be used within environments where distraction could cause a dangerous situation (for example, in the dashboard of a vehicle or moving plant, or within unnecessarily close proximity to dangerous working conditions).

Prolonged heat exposure:

Prolonged heat exposure could cause overheating and risk of fire or explosion of internal batteries. Do not operate or store devices in direct sunlight, or within or near environments that are at risk of overheating and prolonged heat exposure. Refer to the **"Specifications"** section of this document, for recommended safe operating and storage temperatures.

Power and cable connector:

Power cables and power adaptors should undergo electrical testing by a registered electrician before use/installation. Do not plug device into an electrical circuit designed, or being used by, industrial plant and machinery. Doing so may cause damage or affect the usable lifetime of the appliance. Do not use power adapters or cables that were not supplied with your device. Contact TimeDock if you require replacements.

Explosive and other atmospheric conditions:

Charging or using TimeDock devices in any area with a potentially explosive atmosphere, such as areas where the air contains high levels of flammable chemicals, vapors, or particles (such as grain, dust, or powders), may be hazardous.

High-consequence activities:

TimeDock devices are not intended for use where the failure of the device could lead to death, personal injury, or damage.

Specifications

Certifications & Ratings:

- **IP64**

The Tablet PC *core* is rated IP64: Protected from total dust ingress. Protected from water spray from any direction.

This excludes attachments, such as docking stations or backing panels, or other accessories.

- **ISO 7637-2**

Road-vehicles – Electrical disturbances from conduction and coupling.

<https://www.iso.org/standard/50925.html>

- **CE**

The Tablet PC core, and power adapter, is marked CE to declare that the product meets all the appropriate provisions of the relevant legislation implementing certain European Directives.

- **FCC**

The Tablet PC core, and power adapter, comply with Part 15 of the FCC rules.

Operation is subject to the following two conditions: (1) The device may not cause harmful interference, and (2) The device must accept any interference received, including interference that may cause undesired operation.

Materials Safety Data

The information within this section refers to “Polymer Lithium Batteries”, that can be found within TimeDock devices. It does not include backing plates, power adapters or other accessories.

Specifications:

Data type	Detail
Description	Polymer Lithium Battery
Model / Type	7545125-5000mAh
Manufacturer	Dongguan Yiling Electronic Technology Co., Ltd.
Nominal Voltage	3.7V
Capacity	5000mAh
Wh Rating	18.5Wh
Tested By	Shenzhen ZRLK Testing Technology Co., Ltd.
Date Tested	2019-01-14

Hazards Identification:

Hazard	Detail
Preparation hazards and classification	<p>When the battery is under extreme pressure deformation, high-temperature environments, overload, short-circuit condition, or disassembled, an explosion of fire and chemical burn hazards may occur.</p>
Primary Route(s) of Exposure	<p>These chemicals are contained in a sealed enclosure. Risk of exposure occurs if the cell is mechanically, thermally, or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by Inhalation, Ingestion, Eye contact and Skin contact.</p>
Potential Health Effects:	<p>Burns: If the battery has been ruptured, the electrolyte solution contained within the battery is corrosive and can cause burns.</p> <p>Inhalation: A battery volatilizes no gas unless it was damaged. Damaged battery will volatilize gas that may stimulate the respiratory tract or cause an anaphylaxis in serious condition.</p> <p>Ingestion: Swallowing battery chemicals could damage the respiratory tract and cause chemical burns to the stomach; in serious conditions it will cause permanent damage.</p> <p>Skin: Under normal conditions, contact between the battery and skin will not cause any harm. Contact with a damaged battery may cause skin allergies or chemical burns.</p> <p>Eyes: Under normal conditions, contact between the battery and eyes will not cause any harm. However, the gas Volatilized from a damaged battery may be harmful to eyes.</p>

Composition:

Hazardous Ingredients	Concentration (%)	CAS Number
Lithium Cobalt Oxide (LiCoO ₂)	35.5	12190-79-3
Aluminium Foil (Al)	9	7429-90-5
1.1-Difluoroethylene polymer	1	24937-79-9
Graphite (C)	18	7782-42-5
Copper Foil (Cu)	15	7440-50-8
Styrene-Butadiene polymer	1.5	9003-55-8
Phosphate(1-), hexafluoro-, Lithium	2.8	21324-40-3
Ethylene carbonate	5	96-49-1
Dimelene carbonate	5	616-38-6
Carbonate, methyl ethyl	5	623-53-0
Nickel	2.2	7440-02-0

CAS number: Chemical Abstract Service Registry Number.

(*) Main ingredients: Lithium hexafluorophosphate, organic carbonates.

First-aid Measures:

Exposure	Recommendation
Inhalation	If contents of an opened battery are inhaled, remove source of contamination, or move victim to fresh air. Obtain medical advice immediately.
Skin Contact	Remove contaminated clothing, shoes and leather goods as quickly as possible. Immediately flush with lukewarm, gentle-flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Eye Contact	If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.
Ingestion	If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.

Have victim rinse mouth thoroughly with water. **DO NOT INDUCE VOMITING.**

Have victim drink 60 to 240 mL (2-8 oz.) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Have victim rinse mouth with water again.

Quickly transport victim to an emergency care facility.

Fire-fighting Measures:

Consideration	Recommendation
Flammable Properties	If the battery has been ruptured, the electrolyte solution contained within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials.
Suitable Extinguishing Media	Use extinguishing media suitable for the materials that are burning.
Explosion	Sensitivity to Mechanical Impact: This may result in rupture in extreme cases.
Explosive Gas Release	Fires involving Polymer Lithium Battery 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 agents are recommended to extinguish the fire.
Protective Equipment and Precautions for Fire Fighters	As for any fire, evacuate the area and fight the fire from a safe distance. Wear a pressure-demand, self-contained breathing apparatus and full protective gear. Fight fire from a protected location or a safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

Accidental Release Measures:

Consideration	Recommendation
Personal Precautions, Protective Equipment, and Emergency Procedures	Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment.
Environmental Precautions	Prevent material from contaminating soil and from entering sewers or waterways.
Methods and Materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and Materials for Cleaning Up	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an appropriate waste container. Collect all contaminated absorbent and dispose of according to directions in Section " Disposal Considerations ". Scrub the area with detergent and water; collect all contaminated wash water for proper disposal.

Handling and Storage:

Consideration	Recommendation
Handling	<p>Do not dismantle, open or shred secondary Polymer Lithium Battery;</p> <p>Don't handle Polymer Lithium battery with metalwork.</p> <p>Do not open, disassemble, crush, or burn battery.</p> <p>Ensure good ventilation/ exhaustion at the workplace.</p> <p>Prevent formation of dust.</p> <p>Information about protection against explosions and fires: Keep ignition sources away. Do not smoke.</p>
Storage	<p>If the Polymer Lithium Battery is subject to storage for more than 3 months, it is recommended to recharge the Polymer Lithium Battery periodically.</p> <p>Temperature (Up to 3 months storage): -10°C ~ +40°C, 45 to 85% RH</p> <p>Temperature (Long term storage): 0°C~+35°C</p> <p>The capacity recovery rate in the delivery state (50% capacity of fully charged) after storage is assumed to be 80% or more.</p> <p>Do not store Polymer Lithium Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other</p>

metal objects.

Keep out of reach of children.

Do not expose Polymer lithium battery to heat or fire. Avoid storage in direct sunlight.

Do not store together with oxidizing and acidic materials.

Stability and Reactivity:

Consideration	Details
Stability	The product is stable under normal conditions.
Conditions to Avoid (e.g. static discharge, shock or vibration)	<p>Do not subject Polymer Lithium Battery to mechanical shock.</p> <p>Vibration encountered during transportation does not cause leakage, fire or explosion.</p> <p>Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse or disturbances.</p>
Hazardous Decomposition Products	The Polymer Lithium Battery may release toxic fumes if burned or exposed to fire.

Disposal Considerations:

Product disposal recommendation:

Observe local, state and federal laws and regulations.

Packaging disposal recommendation:

Be aware discarded batteries may cause fire.

- Tape the battery terminals to insulate them.
- Do not disassemble the battery.
- Completely discharge containers (no tear drops, no powder rest, scraped carefully).
- Containers may be recycled or re-used.
- Observe local, state and federal laws and regulations.

Consider the potential effects on the environment and human health of the substances used in batteries and accumulators; the desirability of not disposing of waste batteries and accumulators as unsorted municipal waste and of participating in their separate collection so as to facilitate treatment and recycling.

Other information:

The information above is believed to be accurate and represents the best information currently available to us. However, TimeDock makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, arising out of or connected with the use or misuse of our products.

Users should conduct their own investigations to determine the suitability of the information for their purposes.

Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration, and investigation. This material safety data sheet provides *guidelines* for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.