HILTI PLT 400 Digital Layout Tool Instruction Manual

Contents

HILTI PLT 400 Digital Layout Tool

Original operating instructions

Information about the operating instructions

About these operating instructions

- Read these operating instructions before the product is used or operated for the first time. This is a prerequisite for safe, trouble-free handling and use of the product.
- Observe the safety instructions and warnings in these operating instructions and on the product.
- Always keep the operating instructions with the product and make sure that the product is accompanied by these operating instructions only, when the product is given to other persons.

Explanation of symbols used

Warnings
Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:

DANGER!

- Draws attention to imminent danger that will lead to serious personal injury or fatality.

WARNING!

- Draws attention to a potential threat of danger that can lead to serious injury or fatality.

CAUTION!

- Draws attention to a potentially dangerous situation that could lead to personal injury or damage to the equipment or other property

Symbols in the documentation
The following symbols are used in this document:

- Read the operating instructions before use.
- Instructions for use and other useful information
- Dealing with recyclable materials
- Do not dispose of electric equipment and batteries as household waste

Symbols in the illustrations
The following symbols are used in illustrations:

- These numbers refer to the corresponding illustrations found at the beginning of these operating instructions
- The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text
- Item reference numbers are used in the overview illustrations and refer to the numbers used in the product overview section
- This symbol is intended to draw special attention to certain points when handling the product.

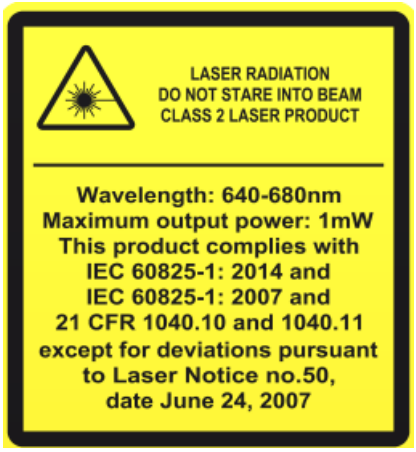
Product-dependent symbols

Symbols on the product
The following symbols can be used on the product:

- The product supports wireless data transmission compatible with iOS and Android platforms.
- Hilti Li-ion battery type series used. Observe the information given in the section headed Intended use.
- Li-ion battery
- Never use the battery as a striking tool.
- Do not drop the battery. Never use a battery that has suffered an impact or is damaged in any other way.

Labels on the PLT 400

The following labels are applied to the PLT 400:
Laser radiation. Do not stare into the beam. Class 2 laser



Product information

Hilti products are designed for professional use and may be operated, serviced and maintained only by trained,

authorized personnel. This personnel must be specifically informed about the possible hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use. The type designation and serial number are printed on the rating plate

- Write down the serial number in the table below. You will be required to state the product details when contacting Hilti Service or your local Hilti organization to inquire about the product.

Declaration of conformity

The manufacturer declares, on his sole responsibility, that the product described here complies with the applicable legislation and standards. The technical documentation is filed here:
Hilti Entwicklungsgesellschaft mbH | Tool Certification | Hiltistrasse 6 | D-86916 Kaufering, Germany

Safety

General safety instructions, measuring tools
WARNING! Read all safety precautions and other instructions. Measuring tools can present hazards if handled incorrectly. Failure to observe the safety instructions and other instructions can result in damage to the measuring tool and/or serious injury. Keep all safety precautions and instructions for future reference.

Work area safety

- Keep your workplace clean and well lit. Cluttered or poorly lit workplaces invite accidents.
- Do not operate the product in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.
- Keep children and other persons clear when the product is in use.
- Use the product only within its specified limits.
- Comply with your national accident prevention regulations.

Electrical safety

- Do not expose the product to rain or moisture. Penetrating moisture can cause short circuits, electrical shock, burns or explosions.
- Although the product is protected against the entry of moisture, it should be wiped dry before being put away in its transport container.

Personal safety

- Stay alert, watch what you are doing and use common sense when operating a measuring tool. Do not use a measuring tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the measuring tool can result in serious personal injury.
- Avoid unusual body positions. Keep proper footing and balance at all times.
- Wear personal protective equipment. Wearing personal protective equipment reduces the risk of injury.
- Do not render safety devices ineffective and do not remove information and warning notices.
- Avoid accidental starting. Make sure that the measuring tool is switched off before connecting it to the battery and before picking it up or carrying it.
- Use the product and accessories in accordance with these instructions and in the way specified for this special

type of tool. Take the working conditions and the work to be performed into account. Use of products for applications different from those intended could result in hazardous situations.
- Do not lull yourself into a false sense of security and do not flout the safety rules for measuring tools, even if you are familiar with the measuring tool after using it many times. Carelessness can result in serious injury within a fraction of a second.
- Do not use the measuring tool in the vicinity of medical devices.

Using and handling the measuring tool

- Use the product and accessories only when they are in perfect working order.
- Store measuring tools out of reach of children when not in use. Do not allow persons who are not familiar with the product or these instructions to operate it. Measuring tools are dangerous in the hands of inexperienced persons.
- Measuring tools need care and attention. Check that moving parts operate satisfactorily and do not jam, and make sure that no parts are broken or damaged in such a way that the measuring tool might no longer function correctly. Have damaged parts repaired before using the measuring tool. Many accidents are caused by poorly maintained measuring tools.
- Do not under any circumstances modify or tamper with the product. Changes or modifications not expressly approved by Hilti may restrict the user’s authorization to operate the product.
- Check the accuracy of the measuring tool before using it for important measurements, and if it has been dropped or subjected to other mechanical stresses.
- Due to the measuring principle employed, the results of measurements can be negatively affected by certain ambient conditions. These include, for example, the proximity of devices that produce strong magnetic or electro-magnetic fields, vibrations and temperature changes.
- Rapidly changing measuring conditions can falsify the results.
- When the product is brought into a warm environment from very cold conditions, or vice-versa, allow it to become acclimatized before use. Big differences in temperature can lead to incorrect operation and incorrect results.
- When adapters or accessories are used, make sure they are mounted securely.
- The measuring tool is designed for the tough conditions of jobsite use, but as with other optical and electrical products (e.g. binoculars, spectacles, cameras) it must be handled with care.
- The specified operating and storage temperatures must be observed.

Additional safety instructions for laser measuring tools

- Laser radiation in excess of Class 2 can be emitted if the product is opened without correct procedure being followed. Have the product repaired only by Hilti Service.
- Secure the area in which you will be taking measurements. While setting up the product, make sure that you do not direct the laser beam toward yourself or others. Laser beams should be projected well above or well below eye height.
- Keep the laser exit window clean in order to avoid measurement errors.
- Check the accuracy of the product before use and several times during use.
- Readings taken in the vicinity of reflective objects or surfaces, through panes of glass or similar materials can falsify the result of measurement.

- Mount the product on a suitable holder or bracket or on a tripod, or set it on a smooth, level surface.
- Do not work with surveyor’s staffs in the vicinity of high-voltage electricity cables.
- Make sure that no other laser measuring tool that can influence your measurements is in use in the vicinity.
- Do not permit the laser beam to project beyond the controlled area.

Laser classification for Class 2 laser products
The device complies with Laser Class 2 in accordance with IEC60825-1/EN60825-1:2014. These products can be used without further protective measures.
CAUTION
Risk of injury! Do not direct the laser beam toward persons.

- Never look directly into the source of the laser beam. In the event of direct eye contact, close your eyes and move your head out of the path of the laser beam.

Electromagnetic compatibility
Although the tool complies with the strict requirements of the applicable directives, Hilti cannot exclude the following possibilities:

- The tool may cause interference to other devices (e.g. aircraft navigation equipment).
- The tool may be negatively affected by powerful electromagnetic radiation, possibly leading to incorrect operation.

In these cases, or if you are otherwise unsure, confirmatory measurements should be made by other means.

Additional safety instructions

- Before starting measuring work, make sure that the accuracy of the measuring tools used is adequate for the requirements of the task.
- When a tripod or wall mount is used, make sure that the measuring tool is correctly and securely mounted and that the tripod is standing firmly on solid ground.
- As a precaution, check the previous settings or any adjustments you may have made.
- Fasten the battery compartment cover carefully so that the battery doesn’t fall out. If battery contact is lost the PLT 400 will switch itself off, possibly leading to loss of data.
- Operation of the measuring tool in the vicinity of military installations, airports or radio astronomy facilities is not permissible unless prior permission has been obtained.
- When switching distance measuring mode from prism measurement to reflectorless measurement, make sure that no one can look into the lens of the PLT 400.
- Do not point the PLT 400 or accessories toward the sun or other powerful light sources.
- Measurements to plastic foam surfaces, e.g. polystyrene foam, to snow or to highly reflective surfaces, etc. may result in incorrect readings.
- Measurements taken to surfaces with low reflectivity in highly reflective surroundings may be inaccurate.
- Use of setting-up / adjusting devices and equipment or operating procedures other than those specified in these instructions may lead to exposure to hazardous radiation.
- Always observe the operating instructions and warnings given in the applications displayed.

Careful handling and use of batteries

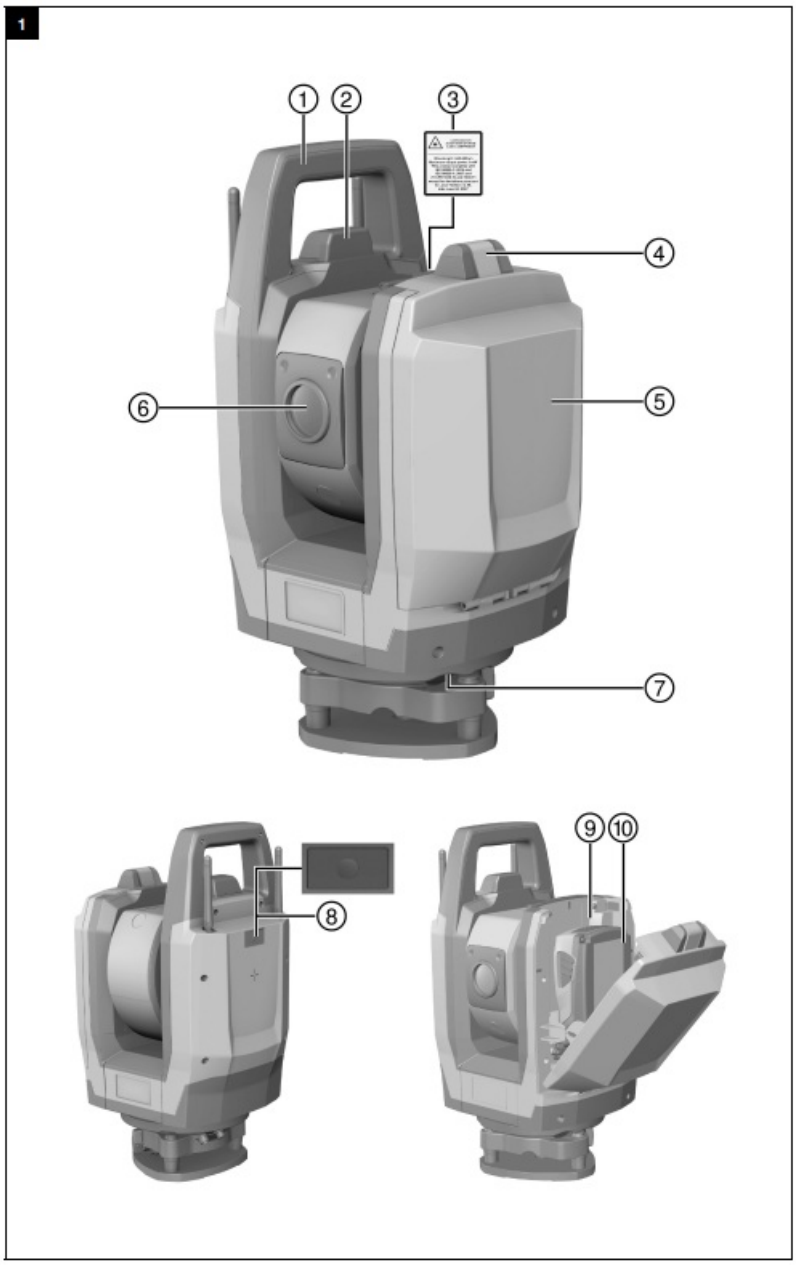
- Comply with the following safety instructions for the safe handling and use of Li-ion batteries. Failure to comply can lead to skin irritation, severe corrosive injury, chemical burns, fire and/or explosion.
- Use only batteries that are in perfect working order.
- Treat batteries with care in order to avoid damage and prevent leakage of fluids that are extremely harmful to health!
- Do not under any circumstances modify or tamper with batteries!
- Do not disassemble, crush or incinerate batteries and do not subject them to temperatures over 80 °C (176 °F).
- Never use or charge a battery that has suffered an impact or been damaged in any other way. Check your batteries regularly for signs of damage.
- Never use recycled or repaired batteries.
- Never use the battery or a battery-operated power tool as a striking tool.
- Never expose batteries to the direct rays of the sun, elevated temperature, sparking, or open flame. This can lead to explosions.
- Do not touch the battery poles with your fingers, tools, jewelry, or other electrically conductive objects. This can damage the battery and also cause material damage and personal injury.
- Keep batteries away from rain, moisture and liquids. Penetrating moisture can cause short circuits, electric shock, burns, fire and explosions.
- Use only chargers and power tools approved for the specific battery type. Read and follow the relevant operating instructions.
- Do not use or store the battery in explosive environments.
- If the battery is too hot to touch, it may be defective. Put the battery in a place where it is clearly visible and where there is no risk of fire, at an adequate distance from flammable materials. Allow the battery to cool down. If it is still too hot to touch after an hour, the battery is faulty. Consult Hilti Service or read the document entitled “Instructions on safety and use for Hilti Li-ion batteries”.

Observe the special guidelines applicable to the transport, storage and use of lithium-ion batteries. Read the instructions on safety and use of Hilti Li-ion batteries that you can access by scanning the QR code at the end of these operating instructions.

Description

Overview of the product

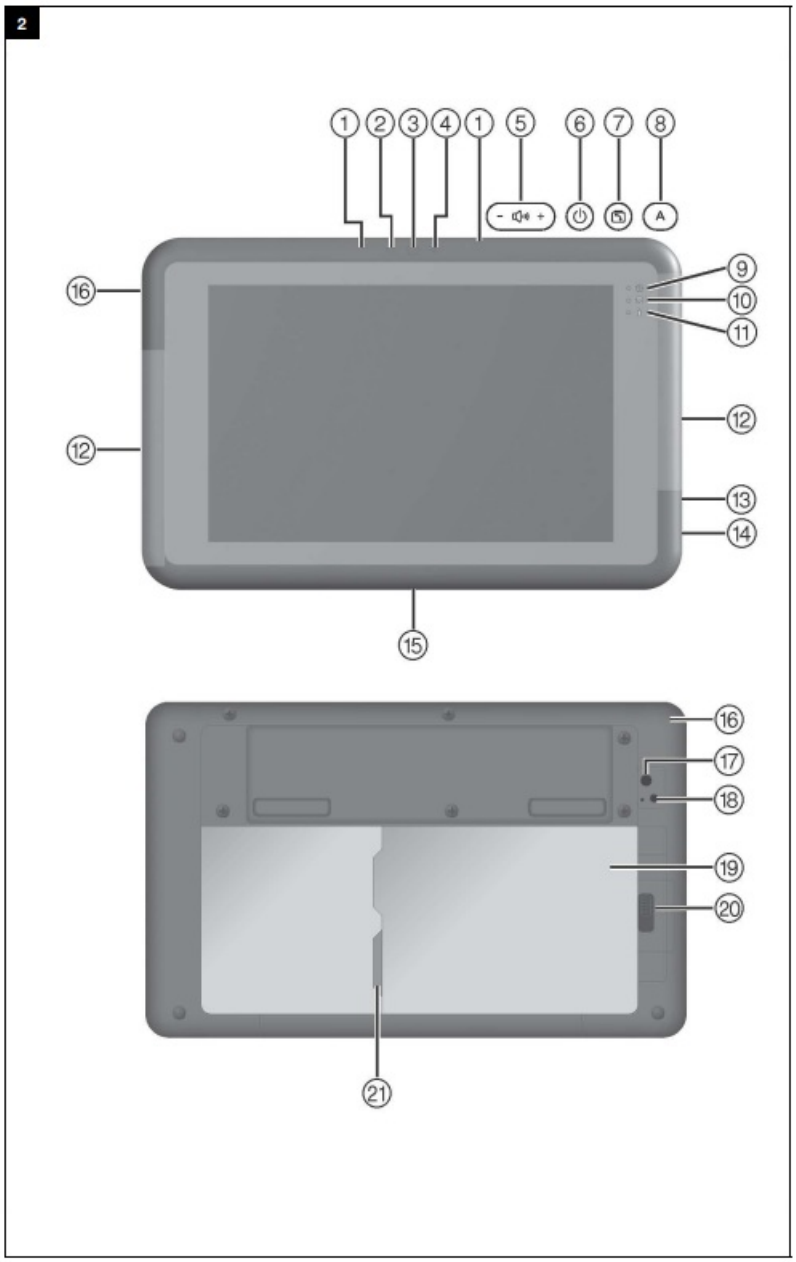
Product overview PLT 400 1



Key

1. Carrying handle
2. WiFi antenna
3. Warning sticker
4. Battery compartment catch
5. Battery compartment cover
6. Lens cover and laser exit aperture
7. Service interface (only for Hilti Service)
8. On/off button
9. Battery compartment
10. Battery

Product overview PLC 400 2



Key

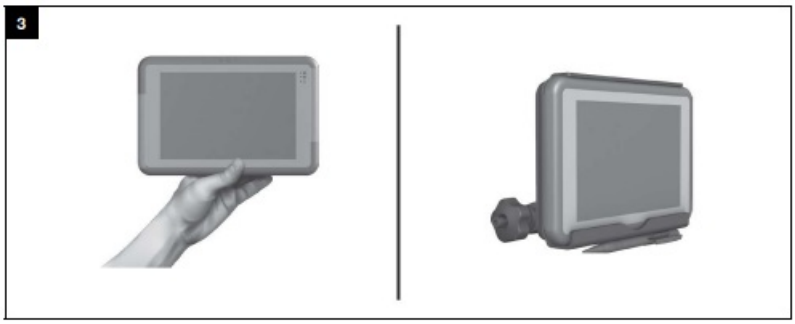
1. Microphone
2. Ambient light sensor
3. Front camera
4. Front camera status indicator
5. Volume control
6. On/off button
7. Display rotation lock button
8. System control button
9. Operating status indicator
10. Data storage status indicator
11. Battery status indicator
12. Wi-Fi antennas
13. Earphone socket
14. USB connector

15. Docking connector
16. Charging socket
17. Rear camera
18. Rear camera status indicator
19. Battery compartment
20. Battery compartment catch
21. microSD card slot

Intended use
The product described consists of the cordless PLT 400 layout tool and a cordless PLC tablet. The PLC tablet is intended for remote control of the PLT 400. The two components combined form a system. The layout tool is designed to be used for measuring distances and directions, calculating target positions in three dimensions and laying out given coordinates or values relative to a control line.

- Use only Hilti Liion batteries of the B 22 series with this product.
- Use only Hilti battery chargers of the C 4/36 series to charge these batteries.

Items supplied
PLT 400, PLC tablet, operating instructions.
Other system products approved for use with this product can be found at your local Hilti Store or at:
www.hilti.group
Wi-Fi antennas 3



A Wi-Fi antenna is located at each narrow side of the controller.

- When operating the controller, don’t hold it at the sides where the Wi-Fi antennas are located as this reduces its transmitting and receiving performance.

A holder for the controller, which helps avoid degradation of Wi-Fi performance, is available as an accessory.

Data link to periphery devices
The software used on the PLC tablet is Hilti PROFIS Layout Field. The Hilti PROFIS Layout Office PC software for data post-edit and export to other systems is available for PCs. Data can be exchanged between these two software products. Data from the PLC tablet can be transferred directly to USB data media.

Technical data

Weight without battery	6.2 kg (13.7 lb)
Rated voltage	21.6 V
Storage temperature	–20 °C … 70 °C (–4 °F … 158 °F)
Ambient temperature for operation	–17 °C … 50 °C (1 °F … 122 °F)
Degree of protection	IP55
Relative air humidity	95 %
Rotation speed	135 °/s
Telescope repositioning	3.2 s
Thread	5/8 in
Communication standard	WiFi, Dual 2.4 GHz and 5 GHz band, IEEE 802.11a/b/g/n/ac, Enhanced Data Rate (Long Range Bluetooth)
Maximum emitted transmission power, WiFi for FCC	24.5 dBm
Maximum emitted transmission power, WiFi for ETSI	18.4 dBm
WiFi frequency range	2,400 MHz … 2,483.5 MHz | 5,150 MHz … 5,350 MHz | 5,470 MHz … 5,835 MHz
Maximum emitted transmission power, Bluetooth®	9.5 dBm
Bluetooth frequency range	2,400 MHz … 2,483.5 MHz

Laser distance measurement

Wavelength	646 nm … 674 nm
Laser color	red
Laser class in accordance with IEC 60825-1	2
Maximum average power output	< 1 mW
Pulse duration	0.06 ns … 2.5 ns
Pulse frequency	3 MHz … 102 MHz
Beam divergence	0.1 mrad … 5.5 mrad

Angle measuring precision (ISO 17123-3)

PLT 4002	2″ (0.6 mgon)
PLT 4004	4″ (1.2 mgon)

Distance measuring precision (ISO 17123-4)

Standard	2 mm + 2 ppm (0.1 in + 2 ppm)
Prism tracking	3 mm (0.1 in)
Reflectorless	2 mm + 2 ppm (0.1 in + 2 ppm)

Tracking (LED tracker)

Peak wavelength	≤ 810 nm
Typical average radiation intensity at a distance of 20 cm (108 µs/109 Hz)	3 mW/cm²
Maximum radiation intensity at a distance of 20 cm	0.24 mW/cm²
Maximum pulse duration	108 µs
Maximum pulse frequency	330 Hz
Beam divergence (2θ1/2)	20°
Tracking range POA 25	1.5 m … 100 m (4 ft – 11 in … 328 ft)
Tracking range POA 20	1.5 m … 400 m (4 ft – 11 in … 1,312 ft)

Camera

Aperture angle (continuous focus)	2° … 30° (0.03 rad … 0.5 rad)
Focus range	≥ 5 m (≥ 16 ft)

Technical data PLC 400

Weight PLC 400	0.55 kg (1.21 lb)
Degree of protection PLC 400	IP65
Rated voltage	7.2 V
Capacity	7.1 Ah
Battery life	8 h

Charging time	4 h
External data terminal	USB 3.0
Bluetooth version	4.0
Bluetooth frequency range	2,400 MHz … 2,483.5 MHz
WLAN standard	IEEE 802.11a/b/g/n

Battery

Battery operating voltage	21.6 V
Ambient temperature for operation	–17 °C … 60 °C (1 °F … 140 °F)
Storage temperature	–20 °C … 40 °C (–4 °F … 104 °F)
Battery charging starting temperature	–10 °C … 45 °C (14 °F … 113 °F)

Preparations at the workplace

WARNING
Risk of injury by inadvertent starting!

- Before inserting the battery, make sure that the product is switched off.
- Remove the battery before making any adjustments to the power tool or before changing accessories.

Observe the safety instructions and warnings in this documentation and on the product.

Charging the battery

1. Before charging the battery, read the operating instructions for the charger.
2. Make sure that the contacts on the battery and the contacts on the charger are clean and dry.
3. Use an approved charger to charge the battery.

Inserting the battery
WARNING
Risk of injury by short circuit or falling battery!

- Before inserting the battery, make sure that the contacts on the battery and the contacts on the product are free of foreign matter.
- Make sure that the battery always engages correctly.
    - Charge the battery fully before using it for the first time.
    - Push the battery into the product until it engages with an audible click.
    - Check that the battery is seated securely.

Removing the battery

1. Press the battery release button.
2. Remove the battery from the product.

Switching PLT 400 and PLC tablet on

1. Switch the PLT 400 and the PLC tablet on.
2. Start the PROFIS Layout Field application on the PLC tablet.
3. Comply with the notifications and instructions that appear on the display of the PLC tablet.

Care and maintenance

WARNING
Risk of injury with the battery inserted!

- Always remove the battery before carrying out care and maintenance tasks!

Care and maintenance of the tool

- Carefully remove stubborn dirt from the tool.
- Carefully remove dust with a dry brush or cloth.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these may attack the plastic parts.

Care of the Liion batteries

- Keep the battery free from oil and grease.
- Use only a slightly damp cloth to clean the casing. Do not use cleaning agents containing silicone as these may attack the plastic parts.

- Avoid ingress of moisture.

Maintenance

- Check all visible parts and controls for signs of damage at regular intervals and make sure that they all function correctly.
- Do not operate the cordless tool if signs of damage are found or if parts malfunction. Have the tool repaired by Hilti Service immediately?
- After cleaning and maintenance, fit all guards or protective devices and check that they function correctly.

Cleaning the laser exit window

- Blow dust off the laser exit window.
- Do not touch the laser exit window with your fingers.

Coarse cleaning materials can scratch the glass, impairing the accuracy of the device. Use only pure alcohol or water for cleaning, as other liquids can attack the plastic parts. Observe the temperature limits when drying the equipment.

Cleaning and drying

1. Blow any dust off the glass.
2. Use only a soft, clean cloth to clean the tool.

Hilti Measuring Systems Service
Hilti Measuring Systems Service checks the scanning tool and, if deviations from the specified accuracy are found, recalibrates it and rechecks to ensure conformity with specifications. The service certificate provides written confirmation of conformity with specifications at the time of the test. The following is recommended:

- Choose a test/inspection interval that matches usage of the device.
- Have the product checked by Hilti Measuring Systems Service after exceptionally heavy use or subjection to unusual conditions or stress, before important work or at least once a year.

Testing and inspection by Hilti Measuring Systems Service does not relieve the user of the obligation to check the scanning tool before and during use.

Transport and storage of cordless tools

Transport

- Remove the battery.
- Never transport batteries in bulk form (loose, unprotected).
- Check tools and batteries for damage before use after long periods of transport.

Storage
WARNING
Accidental damage caused by defective or leaking batteries!

- Always store your products with the batteries removed!
- Never store batteries in direct sunlight, on heating units or behind a window pane.
- Store the tool and batteries in a place where they cannot be accessed by children or unauthorized persons.
- Check the tool and batteries for damage before use after long periods of storage.

Disposal

WARNING
Risk of injury due to incorrect disposal! Health hazards due to escaping gases or liquids.

- DO NOT send batteries through the mail!
- Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.
- Dispose of your battery out of the reach of children.
- Dispose of the battery at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions.

Most of the materials from which Hilti products are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to Hilti for recycling. Ask Hilti Service or your Hilti sales representative for further information.

- Do not dispose of power tools, electronic equipment or batteries as household waste!

Manufacturer’s warranty

- Please contact your local Hilti representative if you have questions about the warranty conditions.

Further information
Accessories, system products and more information about your product can all be found by following the links below:

- PLT 4004
- PLT 4002

DECLARATION OF COMUNITY

	Hazardous Substances				
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Poly-brominated biphenyls (PBB)
Electronics (PCB, switch, wiring)	X	O	X	O	O
Motor	O	O	O	O	O
Power cord	O	O	O	O	O
Fastener elements	O	O	O	O	O
Metal parts	X	O	O	O	O
Power supplies	O	O	O	O	O
Brass parts	X	O	O	O	O
Aluminium parts	X	O	O	O	O
Battery	O	O	O	O	O
Battery charger	X	O	O	O	O

- O: Indicates that said hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement of GB/T 2
- X: Indicates that said hazardous substance contained in at least one of the homogenous matrials used for this part is above the limit requireme but corresponds to the exemption

This table is valid for the China market.

Hilti Li-ion batteries

Instructions for Use and Operation
This documentation uses the term battery to describe rechargeable Hilti Li-ion battery packs containing several Li-Ion cells joined together. These batteries are to be used in Hilti power tools exclusively. When using Hilti power tools, use Hilti original battery packs! Hilti batteries are state of the art and are equipped with cell management and cell protection systems.
Description
The batteries are composed of cells that contain lithium-ion storage materials that are capable providing high specific energy density. Unlike NiMH and NiCd batteries, Li-ion batteries have a minimal memory effect, but they are extremely susceptible to external impact, deep discharge, and high temperatures.

Safety WARNING
Find our battery-powered products at your Hilti Store or at:
www.hilti.group | USA: **www.hilti.com**

Safety

- Batteries must not be modified or tampered with!
- Never use recycled or repaired batteries conducted by non-Hilti companies.
- Do not use or charge batteries that have suffered mechanical impact, have been dropped from a height or show signs of damage. Examine your batteries regularly for signs of damage, such as shredding, cuts or punctures.
- Never use the battery or a battery-operated power tool as a hammer.
- Avoid eye or skin contact with leaking liquids!
- See What to do in case of damaged batteries

- Damaged batteries can leak fluid which may moisten adjacent objects. Clean these objects with warm soapy water and replace the damaged batteries.
- See What to do in case of damaged batteries
- Never expose batteries to elevated temperature, sparking, or an open flame because the battery may explode.
- Do not touch the battery poles with your fingers, tools, jewelry, or other metallic objects because this may cause a short circuit, electrical shock, burns or explosions.
- Keep batteries away from rain or moisture. Penetrating moisture can cause short circuits, electrical shock, burns or explosions.
- Only use chargers and power tools approved for the specific battery type. Read and follow the instructions in the respective user manuals.
- Do not store or use the battery in explosion-prone environments containing combustible liquids or gases. An unexpected battery malfunction can cause an explosion under those conditions.

What to do in case of damaged batteries

- If a Hilti battery is found to be damaged, contact your Hilti service partner.
- If a battery is leaking, use safety goggles and gloves to avoid direct eye or skin contact.
- To store a damaged battery, place the battery in a non-flammable container and cover the battery with dry sand, chalk powder ($CaCO_3$) or silicate (Vermiculite). Then, close the lid air-tight and store the container away from flammable gases, liquids, or objects.
- Dispose of the container at your Hilti Store, or consult your local governmental garbage disposal or public health and safety resources for disposal instructions. Do not ship or mail damaged batteries!
- Use a chemical spill cleanup kit to remove leaked battery fluid.

What to do in case of dysfunctional batteries

- Watch for abnormal battery behavior, such as faulty charging or unusually long charging times, noticeable power loss, unusual charger LED activity, or leaking fluids. These are signs of an internal problem.
- If you suspect an internal battery problem, contact your Hilti service partner.
- Should the battery be in operational or no longer chargeable or leaking fluid, dispose of it as described above.
- See What to do in case of damaged batteries.

What to do in case of a battery fire
WARNING
Battery fire hazard! A burning battery releases hazardous and potentially explosive liquids and fumes that can lead to corrosion injuries, burns or explosions.

- Wear your personal protective equipment when you tackle a battery fire.
- Provide sufficient venting to permit hazardous and potentially explosive fumes to escape.
- Leave the room immediately in case of intense smoke emission.
- Consult a doctor in case of any skin or respiratory irritation.
- Battery fires should be extinguished with water. Powder fire extinguishers and fire blankets are ineffective with Li-Ion batteries. Fires started by a lithium-ion battery in nearby materials can be extinguished with any appropriate extinguishing agent.
- Do not try to move large quantities of damaged, burning, or leaking batteries. Instead, remove surrounding

materials and isolate the batteries. If the scale of the fire is larger than can be extinguished with available methods, contact the nearest firefighting authority.

In the case of a single burning battery,:

- Scoop the battery up with a shovel and drop it into a bucket of water, which will reduce the risk of igniting adjacent cells that have not yet reached run-away temperature.
- Wait for the battery to cool down completely.
- See What to do in case of damaged batteries.

Shipping and storage

- Ambient operating temperature to be kept between -17°C and +60°C / 1°F and 140°F.
- Storage temperature to be kept between -20°C and +40°C / -4°F and 104°F.
- Do not store batteries on the charger. Separate battery from charger after use.
- Store batteries in a cool and dry place. Cool storage will increase battery life. Never store batteries where they are exposed to direct sunlight, on sources of heat or behind glass.
- Batteries should not be sent through the mail. Consult your shipper for instructions on how to ship undamaged batteries.
- Do not transport batteries in bulk, loosely packaged. During transport, batteries should be protected from excessive shock and vibration and isolated from any conductive materials or other batteries that may come in contact with the terminals and cause a short circuit.

Maintenance and disposal

- Keep the battery free of oil and grease. If the battery is exposed to oil or grease, remove the contamination with a clean dry rag.
- Never use a battery with clogged venting slots. Clean the venting slots carefully with a soft brush to prevent debris from entering the battery.
- Prevent unnecessary exposure of the battery to dust or debris and never subject the battery to soaking moisture (e.g., submerged in water or left out in the rain).
- If the battery becomes dirty, clean it with a soft brush or clean, dry rag.
- If a battery is exposed to soaking moisture, treat it as a damaged battery and isolate it in a non-flammable container.
- See What to do in case of damaged batteries
- Improper disposal may cause health hazards from leaking gases or fluids. Dispose of the battery at your Hilti Store, or consult your local garbage disposal or public health and safety resources for disposal instructions. Do not ship or mail damaged batteries!
- Do not dispose of batteries as household waste.
- Dispose of your battery out of the reach of children. Cover the terminals with a non-conductive material (such as electrical tape) to prevent short circuiting.

EC Declaration of Conformity | UK Declaration of Conformity

Manufacturer:
Hilti Corporation
Feldkircherstraße 100
9494 Schaan | Liechtenstein

UK Importer:
Hilti (Gt. Britain) Limited
1 Trafford Wharf Road, Old Trafford
Manchester, M17 1BY

PLT 400 (01)

Serial Numbers: 1-99999999999

2014/53/EU | Radio Equipment Regulations 2017

2011/65/EU | The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

EN 61010-1:2010
EN 55032:2015 + AC:2016
EN 61000-3-3:2013
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Schaan, 11.02.2022

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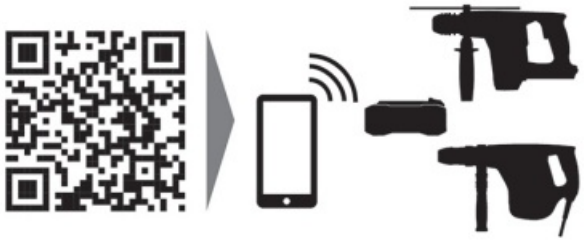

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Documents / Resources

	HILTI PLT 400 Digital Layout Tool [pdf] Instruction Manual PLT 400 Digital Layout Tool, Digital Layout Tool, PLT 400 Layout Tool, Layout Tool, Digital Layout, Layout, PLT 400

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