



# Approval and Certification



Product	0480 0069	
Mat.-No.	0480 0069	
Date	28.06.2018	
<b>Country</b>	<b>Comments</b>	
Australia		E 1561
Canada	Product IC: 6127B-04800069 IC Warnings	
Europa + EFTA	 <b>EU countries:</b> Belgium (BE), Bulgaria (BG), Denmark (DK), Germany (DE), Estonia (EE), Finland (FI), France (FR), Greece (GR), Ireland (IE), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO), Sweden (SE), Slovakia (SK), Slovenia (SI), Spain (ES), Czech Republic (CZ), Hungary (HU), United Kingdom (GB), Republic of Cyprus (CY).  <b>EFTA countries:</b> Iceland, Liechtenstein, Norway, Switzerland	
Turkey	Authorized	
USA	Product FCC ID: WAF-04800069 FCC Warnings	
WLAN	<b>Feature</b>	<b>Values</b>
	WLAN Range	20 m (free field)
	Compliant to protocol	802.11b/g/n(11M~350M bit/s)
	Type of Modulation	802.11b; 802.11g 802.11n(20MHz); 802.11n(40MHz)
	RF Band	Band:ISM Band 2400-2483.5
	Output power	16 dbm
Bluetooth®-Module	<b>Feature</b>	<b>Values</b>
	Bluetooth® Range	10 m (free field)
	Bluetooth® type	GFSK; 8DPSK;π/4DQPSK
	Qualified Design ID	D039574
	Bluetooth® company	Testo SE & Co. KGaA
	RF Band	2.4 GHz ISM band 2402-2480MHz
	Output power	5.5 dbm

## **IC Warnings**

### **RSS-Gen & RSS-247 statement:**

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

### **Caution: Radio Frequency Radiation Exposure**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance.

The device is designed to meet the requirements for exposure to radio waves established by the IC. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for using at the ear is 0.137 W/Kg, at the Body is 0.046 W/Kg.

This radio equipment should be installed and operated keeping the radiator at least 15mm or more away from person's body in normal use position. When used with any accessory that contains no metal the positions should be a minimum of 15mm from the body.

### **Co-Location:**

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

### **Attention : exposition au rayonnement de radiofréquences**

Cet équipement est conforme aux limites d'exposition aux radiations IC définies pour un environnement non contrôlé. L'équipement final doit suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité à l'exposition aux radio fréquences.

L'appareil est conçu pour répondre aux exigences d'exposition aux ondes radio établies par le IC, qui fixent une limite SAR de 1,6 W / kg en moyenne sur un gramme de tissu. La valeur DAS la plus élevée rapportée sous cette norme lors de la certification du produit pour l'utilisation à l'oreille est de 0,137 W / Kg, au corps est de 0,046 W / kg.

Cet équipement radio doit être installé et utilisé en gardant le radiateur au moins 15 mm ou plus du corps de la personne en position d'utilisation normale. Lorsqu'il est utilisé avec un accessoire ne contenant pas de métal, les positions doivent être à au moins 15 mm du corps.

### **Co-location :**

Ce transmetteur ne peut pas être installé en colocation ou être utilisé avec une autre antenne ou transmetteur, quel qu'en soit le type.

## **FCC Warnings**

Information from the FCC (Federal Communications Commission)

### **For your own safety**

Shielded cables should be used for a composite interface. This is to ensure continued protection against radio frequency interference.

### **FCC warning statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Shielded interface cable must be used in order to comply with the emission limits.

#### Warning

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Caution: Radio Frequency Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance.

The device is designed to meet the requirements for exposure to radio waves established by the FCC. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for using at the ear is 0.137 W/Kg, at the Body is 0.046 W/Kg.

This radio equipment should be installed and operated keeping the radiator at least 15mm or more away from person's body in normal use position. When used with any accessory that contains no metal the positions should be a minimum of 15mm from the body.

#### Co-Location:

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

#### Location of FCC and IC ID

FCC and IC ID are placed under the battery of the equipment. Please remove the battery cover and battery to read the identification.

Before using the product, please take out the insulation piece and consider the FCC and IC labels in the battery compartment.

FCC et IC ID sont placés sous la batterie de l'équipement. S'il vous plaît retirer le couvercle de la batterie et la batterie pour lire l'identification.

Avant d'utiliser le produit, retirez l'isolant et considérez les étiquettes FCC et IC dans le compartiment à piles.



## Technical Data

Feature	Value
Display	5.0 Inch, HD 1280*720 pixels, IPS (160k)
Memory	EMMC 8GB+DDR3 1GB Maximum Extended Storage 64GB
Processor	Model MT6580A Feature Quad Core Frequency: 1.3GHz
Connections	Ear phone jack Bluetooth® 4.0 Charge via USB WLAN
Camera	front camera: Sensor *2.0MP / 3P high-resolution lens, Sensing area 1/5 Inch, Pixel area 1.67um * 1.67um, Aperture F2.8 Aperture, Sensor type CMOS back camera: Sensor *5.0MP AF /3P high-resolution lens, Sensing area 1/5 Inch, Pixel area 1.12um * 1.12um, Aperture F2.28 Aperture 67.9 degree, Sensor type CMOS, Autofocus Support, Flash led Support
Battery	2150mAh
Power input	5V / 1A
Storage temperature	-20°C to 50°C
Operating temperature	-5 to +45°C

# Testo - Informations

Safety instructions

Enviroment

Cleaning

Storing





# Content

1	About this document.....	7
2	General safety instructions.....	8
3	Disposal.....	10
4	Power source (Battaries, rechargeable batteries, button cells).....	10
5	Cleaning .....	11
6	Products with wireless technology .....	11
7	Storing.....	12
8	Approvals .....	12
9	EU-Declaration.....	12








# 1 About this document

- The instruction manual is an integral part of the product.
- Pay particular attention to the safety instructions and warning advice in order to prevent injury and damage to the product.
- Keep this documentation to hand so that you can refer to it when necessary.
- Hand this instruction manual on to any subsequent users of the product.

## Symbols and writing standards

Display	Explanation
	Note: basic or further information
1 2 ...	Action: several steps, the sequence must be followed
	Result of an action
	Requirement

## Warning notices

Always pay attention to any information marked with the following warning notices along with warning pictograms. Implement the specified precautionary measures!

 **DANGER**

Risk of death!

 **WARNING**

Indicates possible serious injury.

 **CAUTION**

Indicates possible minor injury.

**CAUTION**

Indicates possible damage to equipment.

## 2 General safety instructions



Product specific safety instructions, approvals and technical data can be found in the attached documentation or on the testo homepage [www.testo.com](http://www.testo.com) under the product-specific download.

- Only operate the product properly, for its intended purpose, and within the parameters specified in the technical data.
- Do not apply any force.
- Do not operate the instrument if there are signs of damage on the housing, mains unit or connected cables.
- Only use the device in closed, dry rooms and protect it from rain and moisture.
- Before startup the product must be checked for visibly damage.
- Dangers may also arise from the systems being measured or the measuring environment: Note the safety regulations valid in your area when performing the measurements.
- Only perform maintenance and repair work on this instrument that is described in the detailed documentation. Follow the prescribed steps exactly when doing the work
- Any further or additional work must only be carried out by authorised personnel. Testo will otherwise refuse to accept responsibility for the proper functioning of the product after repair and for the validity of certifications.
- Maintenance work that is not described in the detailed documentation must only be carried out by trained service engineers.
- Safety instructions for patients with a cardiac pacemaker or implanted cardiac pacemaker
  - Handle the magnetic plate on the wall bracket with care and keep it in a safe place.
  - Maintain a distance of 20 cm between your implant and the magnetic plate on the wall bracket.
- Keep safe distance from products which could be damaged by magnets (e.g. monitors, computers, pacemakers, credit cards).
- Use only original spare parts from Testo.

- Temperature information given on probes/sensors relates only to the measuring range of the sensor technology. Do not expose handles and feed lines to temperatures in excess of 45 °C (113 °F), unless they are expressly authorized for use at higher temperatures.

**⚠ WARNING**

**Risk of burns due to hot probes, probe tubes and sensor tips!**

- ▶ Don't touch hot parts (> 45 ° C / 113 ° F) bare-handed immediately after a measurement.

- In case of burns, immediately cool the area with cold water and, if necessary, consult a doctor.


- Probes, probe tubes and sensor tips to cool.

- 
- The product must not be used in potentially explosive atmospheres unless it has been specifically approved for this area.
  - Do not carry out any contact measurements on uninsulated, live parts.
  - Do not expose the product to extremely high or low temperatures. Avoid temperatures below -5 ° C or above 45 ° C. Exception is when a product has been specifically approved for other temperatures.
  - Protect the product from dust and dirt. Make sure that it is not exposed to dust, dirt, sand, etc.
  - Avoid dropping the product.
  - The instrument may only be touched at the designated grip areas, the display elements must not be covered.
  - If the safety of the operator can no longer be guaranteed, you must decommission the instrument and ensure that it cannot be used inadvertently. This applies if the instrument:
    - has obvious indications of damage
    - cracks on the housing
    - defective test leads
    - leaking batteries
    - will no longer carry out the required measurements
    - was stored for too long in unfavourable conditions
    - was exposed to mechanical stresses during transport.

### 3 Disposal

- Dispose of faulty rechargeable batteries and spent batteries in accordance with the valid legal specifications.
- At the end of its useful life, deliver the product to the separate collection point for electric and electronic devices (observe local regulations) or return the product to Testo for disposal.



-  WEEE-Reg.-Nr. DE 75334352
- The button cell used in the instrument contains 1,2-Dimethoxyethane (CAS 110-71-4). See EC Regulation No. 1907/2006 (REACH) Art. 33

### 4 Power source (Batteries, rechargeable batteries, button cells)

- Improper use of batteries may cause the batteries to be destroyed, or lead to injury due to current surges, fire or escaping chemicals.
- Only use the batteries supplied in accordance with the instructions in the instruction manual.
- Do not short-circuit the batteries.
- Do not take the batteries apart and do not modify them.
- Do not expose the batteries to heavy impacts, water, fire or temperatures in excess of 60 °C unless specifically permitted for higher temperatures.
- Do not store the batteries in the proximity of metal objects.
- Do not use any leaky or damaged batteries.
- Only charge the instrument using the recommended mains unit or in the recommended charging station.
- Immediately stop the charging process if this is not completed in the given time.
- Remove the power cable or take the rechargeable battery out of the instrument immediately if it is not functioning properly or if it shows signs of superheating. Rechargeable battery may be hot!
- In the event of contact with battery acid: rinse affected areas thoroughly with water, and if necessary consult a doctor.

- When not in use for a long period of time, take the rechargeable battery out of the instrument to prevent exhaustive discharge.

## 5 Cleaning

- Clean the product with a dry and soft cloth. Do not use alcohol, harsh detergents, solvents or other cleaning fluids to clean the product.
- Do not use any desiccants.
- Use distilled water or alternatively mild solvents or degreasers.
- Store solvents and degreaser separately from the product as leaking solvents and degreaser may cause damage to the product.
- The use of strong or harsh alcohol or brake cleaner can result in damage to the instrument.

## 6 Products with wireless technology

Changes or modifications that have been made without the explicit consent of the responsible approval authority, may cause the retraction of the type approval.

Data transfer may be disturbed by equipment that uses the same ISM-band.

The use of radio communication links is not permitted, among others, in aeroplanes and hospitals. For this reason the following points must be ensured before entering:

- Switch off the instrument.
- Isolate the device from any external power sources (mains, cable, external rechargeable batteries, ...).
- Transport and store the instrument only in the associated packaging, in order to prevent any damage.
- Keep the product away from any liquids and do not put it in the water. Protect it from rain and moisture.
- Do not store the product together with solvents.

## 7 Storing

- Keep the product away from any liquids and do not put it in the water. Protect it from rain and moisture.
- Do not store the product with solvents.

## 8 Approvals

The current country approvals you can find in the enclosed document.

Please note the following country-specific information for the product authorization.



The use of the wireless module is subject to the regulations and stipulations of the respective country of use, and the module may only be used in countries for which a country certification has been granted. The user and every owner has the obligation to adhere to these regulations and prerequisites for use, and acknowledges that the re-sale, export, import etc. in particular in countries without wireless permits, is his responsibility.

## 9 EU-Declaration

You can find the EU declaration of conformity on the Testo homepage [www.testo.com](http://www.testo.com) under the product-specific downloads.





**Testo SE & Co. KGaA**

Testo-Straße 1

79853 Lenzkirch

Germany

Tel.: +49 7653 681-0

Fax: +49 7653 681-7699

E-Mail: [info@testo.de](mailto:info@testo.de)

[www.testo.de](http://www.testo.de)