

TomTom Wireless GPS MkII Specification & Guide



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! Important Regulatory Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Notice: Any changes or modification not expressly approved by the party responsible could void the user's authority to operate the device.

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
- This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada

Important Safety Notices and Warnings

Global Positioning System

The Global Positioning System (GPS) is a satellite-based system that provides location and timing information around the globe. GPS is operated and controlled under the sole responsibility of the Government of the United States of America, who are responsible for its availability and accuracy. Any changes in GPS availability and accuracy may impact the operation of your GPS receiver. Environmental conditions will affect the operation of your GPS receiver. TomTom B.V. cannot accept any liability for the availability and accuracy of GPS.

Use With Care

Use of a GPS receiver for navigation does not by any means substitute for the need to drive with due care and attention.

Aircraft and Hospitals

Use of devices with an antenna is prohibited on most aircraft, in many hospitals and in many other locations. The TomTom Wireless GPS receiver must not be used in these environments.

Heat Reflective Shields

Newer model vehicles may have a heat reflective shield embedded in the windshield preventing proper GPS signal reception if the receiver is placed behind the windshield. To enable proper reception:

- (a) Place the receiver in a different position, or
- (b) Place the receiver behind the rear view mirror, where many vehicles have an opening in the heat reflective shield, indicated by a black outline

Battery

This product uses a Lithium-Ion battery. Please charge the battery fully before first use. Refer to operational temperature ranges in the specification appendix. Operation in low (below 0°C/32°F) or high (over 45°C/110°F) temperatures will affect power supply efficiency and the ability to charge the battery. All Lithium-Ion batteries will experience power supply efficiency deterioration over time, even if not used, and have a limited life expectancy. Permanently powering the battery will reduce life expectancy. Do not continue recharging the battery if it does not recharge within the specified time. Do not pierce, open or disassemble the battery. Do not swallow the battery. If the battery leaks and you come into contact with the leaked fluids, rinse thoroughly with water and seek medical attention immediately.

Do not use your product in a humid, wet and/or corrosive environment. Do not put, store or leave your product in or near a heat source; in a high temperature location; in strong direct sunlight; in a microwave oven; in a pressurized container, and do not expose it to temperatures over 60°C (140°F). Failure to follow these guidelines may cause the Lithium-Ion battery to leak acid; become hot; explode; or ignite and cause injury and/or damage.



THE LITHIUM-ION BATTERY CONTAINED IN THE PRODUCT MUST BE RECYCLED OR DISPOSED OF PROPERLY. USE ONLY WITH SUPPLIED CHARGER(S) AND SUPPLIED AC ADAPTOR FOR BATTERY CHARGING.

Installation, Use & Maintenance

Do not attempt to service this product yourself. Do not open, puncture or disassemble the product.

Ensure that the GPS receiver has an unobstructed view of the sky. Protect your product from excessive heat (see previous paragraph), extreme cold (see previous paragraph), dust, liquids and direct sunlight. Do not use in a humid environment. Do not use the product on an unstable surface. When using the product in a mobile environment always fasten the product to prevent accidental movement of it. Handle all parts, cables and connectors with care. Only use supplied and suggested accessories and power supplies. Ensure that any power supply and/or AC adapter is cooled by placing it in a ventilated area. The power supply and/or AC adapter and the receiver unit may become warm or hot during operation. Unplug the product from any external power source before cleaning. Only clean the product with a dry cloth. Follow the instructions in this manual carefully.

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Operation

User interface	On/Off button	Press & hold for 1s to switch on/off Press & hold for 3s to perform reset
	Green LED GPS Status	Solid on: Acquiring GPS Fix Flashing Green: Has GPS Fix
	Red/Amber LED Power Status	Solid Red: Battery Low Solid Amber: Battery charging
Bluetooth connection	Please refer to the Bluetooth connection setup instructions in the documentation that comes with your PDA, Smartphone or laptop. You will need to set up a Serial Port connection between the GPS receiver and your device. The GPS receiver will appear to your device as the "TomTom Wireless GPS MkII" and its GPS signal will be output on its "GPS serial output". To ensure ease of use, create a Bluetooth bond between your device and the GPS receiver. The pairing code is 0000. Please check specific device setup information on our support pages at www.tomtom.com .	
Configuring your software	After setting up the Bluetooth connection, you will need to modify the properties of the software on your PDA, Smartphone or laptop to use the GPS signal from the GPS receiver. Please refer to the documentation of your device, and of your software. Choose the NMEA protocol.	

Specification

Mechanical	Size	87.8 x 43.0 x 15.1 mm
	Weight	68g
Power	Battery	1200mAh Lithium Ion built-in cell
	Battery life	10hours typical use
	Charge time	Less than 4 hours
	Charging	From CLA (cigarette lighter adaptor or AC Adaptor)
GPS	Chipset	SiRF Star III
	Frequency	L1, 1575.42MHz
	C/A Code	1.023 MHz Chip Rate
	Channels	20 channel all-in-view tracking
	Tracking sensitivity	-159dBm
	Update rate	1Hz
	Cold start	<1 minute typical
	Warm start	<30 seconds typical
	Hot start	<10 seconds typical
	Reacquisition time	<1 second from max 30second blockage
	Datum	WGS-84
	Protocol	NMEA 0183 Version 2.2
	Antenna	Built-in omnidirectional antenna
Bluetooth	Profile	Serial Port Profile (SPP)
	Class	Class II Version 1.2
	Default PIN	0000
Environmental	Storage Temperature	-20 to +70 degrees Celsius
	Operating Temperature	-10 to +60 degrees Celsius
	Humidity	Up to 75% non-condensing
	Drop	2m onto concrete
	Fluid & Dust Protection	IP54

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Industry Canada RF exposure requirements

In order to ensure compliance with the RF exposure requirements specified in Health Canada Safety Code 6, this device may be operated while held in the hand, but not when held close to the body, carried in a pocket or holster, or similar configuration that allows close proximity to the body.

Federal Communications Commission (FCC) Statement

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

15.105(b)

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.

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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.