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# Tire Data Collector (TDC) hand device manual



## 1. Safety instructions

- Do not operate TDC in dangerous atmospheres, such as in the presence of flammable liquids and gases or close to any source of fire.
- Respect all designated safety instructions in the area you operate TDC, stay alert and focus while operating around vehicles and tires (in particular pressurized).
- Respect the electrical charger safety instructions while charging TDC device. Do not charge TDC continuously once fully charged, in wet conditions and under/above the recommended operating temperatures.
- Do not let TDC device under sun exposure and rain. The silicon case makes TDC more resistant but TDC (with or without the case) is not a certified waterproof device.
- TDC is a calibrated precision tool, please maintain and operate TDC with care.

## 2. Product specifications

- (1) RFID: ISO-18000-6C/EPC Class1 Gen2 STANDARD. Frequency Range In accordance with local regulations.
- (2) Bluetooth: Bluetooth 4.0 (BLE Bluetooth Low Energy protocol)
- (3) Tread depth measurement range: 1-30mm, +/- 0.15mm
- (4) Tire pressure range: 1-15bar, +/- 0.1bar
- (5) Battery: 3.8V, 1380mAH. Run-time depends on usage, typical: 16hrs.
- (6) Input: 5V DC, 1A
- (7) Air pressure connection tread: M16x1.5.
- (8) Recommended operating and storage temperatures: 0°C /40°C in dry environment, no direct sun exposure. The device will work in lower or higher temperature but the battery operating time may be drastically shortened.

Label	Description
V	Volt
A	Ampere
DC	Direct Current
mAH	milliamp-hours
mm	Millimeters

### 3. Product overview

- ① Tread depth probe
- ② Off/Mode
- ③ On/Set
- ④ USB-C Port
- ⑤ Air pressure input
- ⑥ LED Charging indicator
- ⑦ LCD screen
- ⑧ Probe unlock button
- ⑨ Bluetooth status
- ⑩ RFID mode
- ⑪ Tread depth mode
- ⑫ Tire pressure mode
- ⑬ Battery charge indicator



INDEX	DESCRIPTION
①	Probe lock automatically when press to bottom
②	Turn OFF the device/Press to switch mode between 1. RFID, 2. tread depth and 3. tire pressure (loop)
③	Turn ON the device/Press to confirm sending data (pressure/tread depth) to application
④	USB-C charging port
⑤	Connect with tube to measure tire pressure
⑥	Charging indicator, RED during charging, GREEN when fully charged
⑦	LCD screen displaying real-time status and measurement information
⑧	Pull down to unlock the probe (mechanical lock)
⑨	Bluetooth indicator, blink when not connected, stop blinking when connected with another device
⑩	"ID" shown on screen, when switch to RFID mode. Not displayed in other modes
⑪	"mm" shown on screen, when switch to tread depth mode. Not displayed in other modes
⑫	"bar" shown on screen, when switch to tire pressure mode. Not displayed in other modes
⑬	Battery charge level indicator

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#### 4. Basic operations

- Power ON: press "ON/SET" button for 1 second, the device will buzz and the screen will turn on showing the firmware version and Bluetooth name of the device.
- Power OFF: press "OFF/MODE" button for 4 seconds, the screen will turn off. Automatic power off after 5 minutes without operation.
- Bluetooth pairing process: Follow the instructions of the application you are using to connect TDC in Bluetooth with another device. If asked by the application, use the BLE protocol. There is no pairing password. The Bluetooth name of the device is shown on the screen after being switched "ON" . The Bluetooth indicator blinks when not connected and stop blinking when connected with another device.
- Switch mode: press "MODE" button to switch mode among RFID reading, tire pressure and tread depth.
- Send data: press "SET" button to confirm measurement and send the data to the application.
- Read RFID tag: switch to RFID mode and scan around the tire sidewall with the back of the hand device, the antenna is at the opposite side of the screen. When the scan is successful, the device will buzz and the screen will display the RFID number (last 8 characters) with the ID icon blinking. Press "SET" button to send the value to the APP. The device will buzz to confirm the action.
- Tire tread depth: Pop-up the probe using the probe-unlock button. Switch to tread depth mode and the screen will display current tire wear depth. Press "SET" button to send the value to the APP. The device will buzz to confirm the action. After using, press the probe to the bottom and it will lock automatically.
- Tire pressure: screw the tube with the stick to the air pressure input. Switch to tire pressure mode. Plug the pressure stick to the valve and make sure there is no air leakage. The screen will display current pressure result. Press "SET" button to send the value to the APP. The device will buzz to confirm the action.
- To charge the device, you can use the USB-C cable provided with any regular USB charger. Please insert carefully the USB-C connector in the TDC. Once the LED is green, the battery is at full capacity.

#### Notes:

Please refer to the application user guide for more detailed instructions on how to use the application in association with the TDC (depending on the location..., the application may be different).

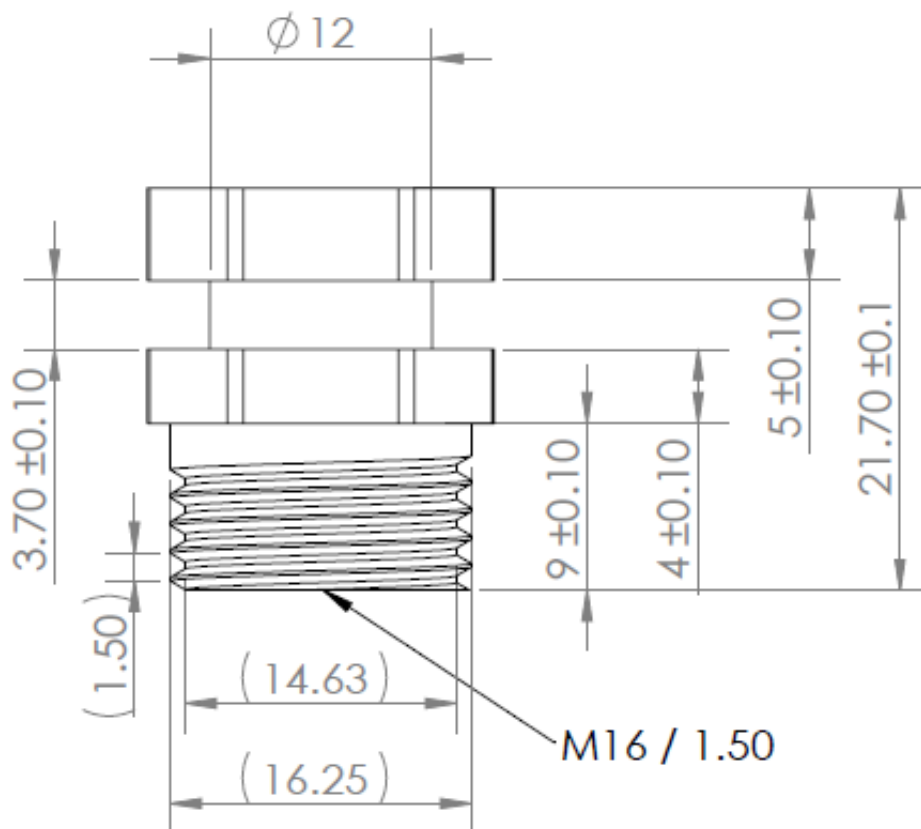
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## 5. Air pressure connection



Here is the description of the air pressure connection as you may want to connect another air pressure hose and not the one delivered by default. However, it is mandatory to make sure the air hose and pressure stick are certified in your country of usage and given for a maximum of 20bar or more.

The air pressure connection on TDC is a standard Male M16x1.5 tread.




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## 6. Product certifications



产品名称/Product Name: Tire Data Collector

型号/Model: TDC

输入/Input: 5V  1A

制造商/Manufactured by: 上海燧盛信息科技有限公司 / Shanghai Suisheng Information

地址/Address : 上海市长宁区福泉北路 518 号 7 座 / Block 7, 518 Fuquan Bei Road, Shanghai

FCC ID: XXXXXXXXXX / CMIIT ID: XXXXXXXXXX / ANATEL ID: XXXX-XX-XXXX

生产日期/Manufactured on: 2019.01

Designed by **MICHELIN**

Made in China

型号核准代码 CMIIT ID 的显示方式 : 以粘贴方式标准在产品本体铭牌标签上。

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*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 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.*

*changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

*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.*