Sensor - Data logger - Web service
The smart instruments specialist

USER GUIDE

Wireless temperature data logger LT2

This device complies with FCC RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

SUMMARY

1 Safety instructions and regulatory compliance

1.1 Operating instructions

• For a battery replacement, check the presence of a desiccant bag after an opening. This bag must be replaced after a contact with ambient air during a period longer than 3 minutes. **If the desiccant bag turn green, it means you have to replace it (PN : H0Q00012).**
• Only the use of Ijinus' accessories and consumable ensures the best and the more safely installation.
• Do not mechanically force the housing.

1.2 Safety instructions

• Do not shortcut, reload, pierce, warm, put into fire, crush the batteries
• Do not shake the devices.
• Do not physically modify the devices.
• Do not clean the devices with aggressive products like acetone.
• Do not use batteries not recommended by Ijinus (PN: A0G00010)
• The devices contain elements sensitive to electrostatic discharge.

Download your body from electrostatic loads before opening and manipulate the devices by touching a metallic surface linked to the Earth.

1.3 Battery Safety

This product contains a lithium battery that must be disposed of properly.
Please follow the battery safety items below:

• Do not dismantle, open or shred secondary cells or batteries.
• Do not expose cells or batteries to heat or fire. Avoid storage in direct sunlight.
• Do not short-circuit a cell or a battery. Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by, other metal objects.
• Never try to recharge this non-rechargable batteries.
• Do not mix cells of different manufacture, capacity, size or type within a device.
• Seek medical advice immediately if a cell or a battery has been swallowed.
• Do not subject cells or batteries to mechanical shock.
• In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
• Keep cells and batteries out of the reach of children.
• Keep cells and batteries clean and dry.
• Use only the cell or battery in the application for which it was intended.

1.4 Warning to users in the United States

Federal Communication Commission Interference
Statement 47 CFR Section 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 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.

This device , temperature data logger LT2, 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.

NO UNAUTHORIZED MODIFICATIONS
47 CFR Section 15.21

CAUTION: This equipment may not be modified, altered, or changed in any way without signed written permission from IJINUS. Unauthorized modification may void the equipment authorization from the FCC and will void the IJINUS warranty.

This device complies with FCC RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.

1.5 Warning to users in Canada / Attention pour les utilisateurs au Canada

This device complies with Industry Canada license-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.
Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This device complies with Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter. This device has been designed to operate with its own internal antenna and having a maximum gain of 0dBi.

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) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt a accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.
Dans le but de réduire les risques de brouillage radioélectrique à l' intention d'autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante. Cet appareil doit être installé de manière à assurer une distance de séparation d'au moins 20 cm avec toutes les personnes. Il ne doit pas être installé dans un même lieu ni être utilisé avec une autre antenne ou un autre émetteur. Cet appareil a été conçu pour fonctionner avec sa propre antenne interne et avec un gain maximal de 0 dBi.

2 Introduction

This device is a wireless temperature sensor. It is installed in places where temperature-sensitive products are stored or shipped and need to be monitored. It is able to record temperature data in a memory. The recorded data can be retrieved locally using a radio access point.

3 Necessary equipments

LT2 temperature Data Logger

M0C0000-2 / WIJIKEY-2
Programming kits including the software IJITempLab

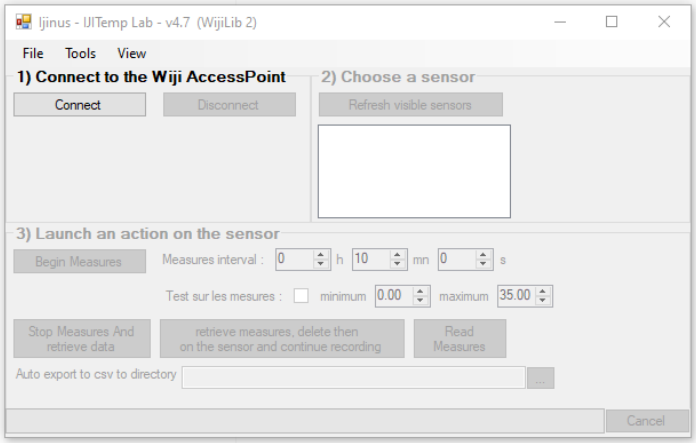
A0G00010
Non rechargeable lithium battery 3.6V 2.6Ah for LT2

The LT2 data logger has an internal battery. To check or activate the radio connection, you can press the front button. The LED flashes green by period every x seconds (depending on configuration). This LED indicates that a radio connection is available with another device.

We have 2 choices of programming kit, at least one of them is necessary for local configuration by radio:
- Wiji kit (with its USB cable, antenna and software IJITempLab 4.7) or
- Wiji key (USB/HF stick) that comes also with the software

4 Configuration of the logger using the software IJITempLab 4.7

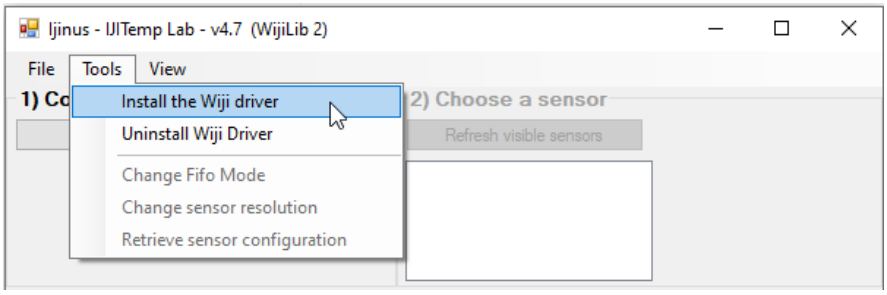
4.1 Launch the software IJITempLab 4.7 and connect to the data logger to configure



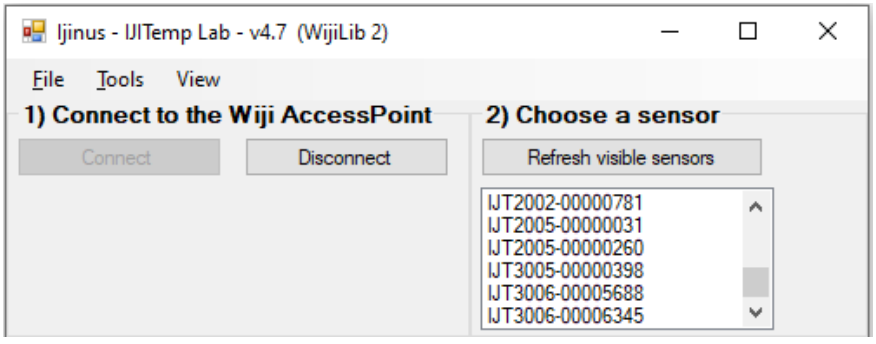
After connection of the Wiji kit equipped with its antenna (or the Wiji key) on the laptop or PC USB port, run the software IJITempLab.

NB: at least 1 meter distance is needed between the Wiji antenna and the datalogger for a correct radio connection.

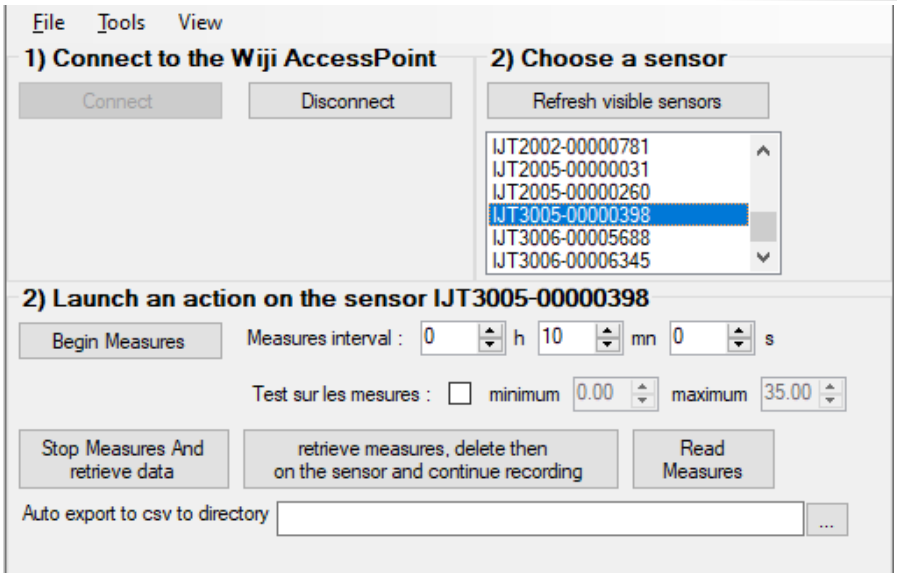
Click the “Connect” button so the software recognize the Wiji as a radio access point. If it doesn’t work you can install the drivers from the top main menu, then Tools, and Install the Wiji driver :



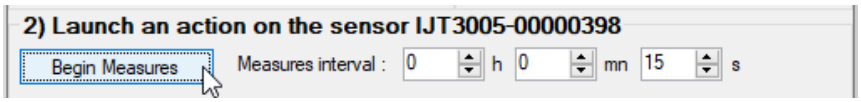
Once connected you have to click the Refresh visible sensors” and choose from the list the available sensors nearby :



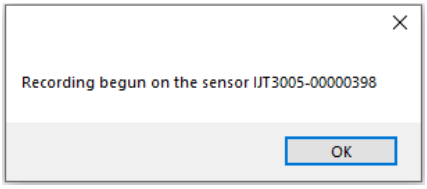
The sensor or logger will be directly visible by its part number (SN) without the need to activate anything else on the device. Locate the sensor's serial number (SN) on the sensor label (ex: IJT3005-00000398**)**. You can click Serial number of the desired sensor to start the configuration :



Choose the measuring period by setting the interval and click on the “Begin Measure” button:

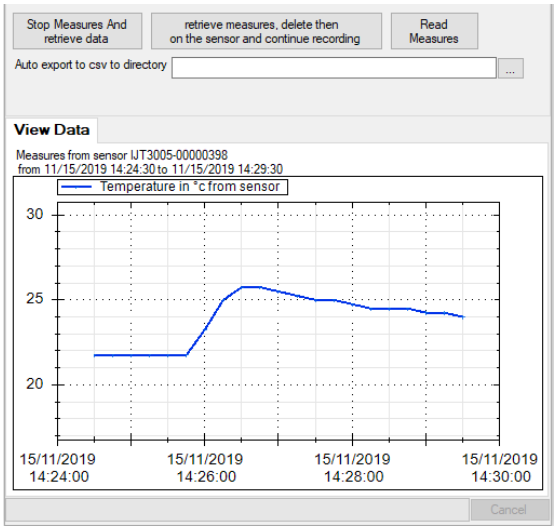


A pop up will appear confirming the recording state



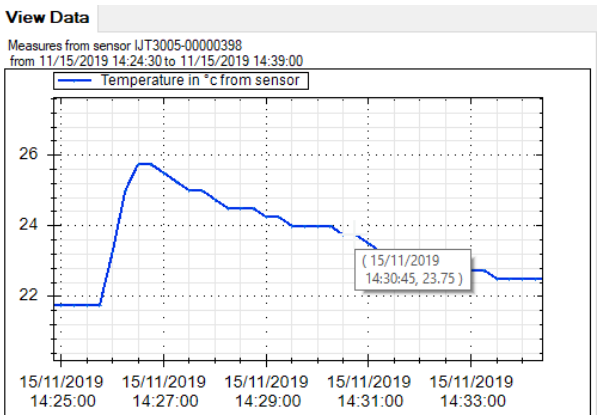
4.2 Displaying the measures

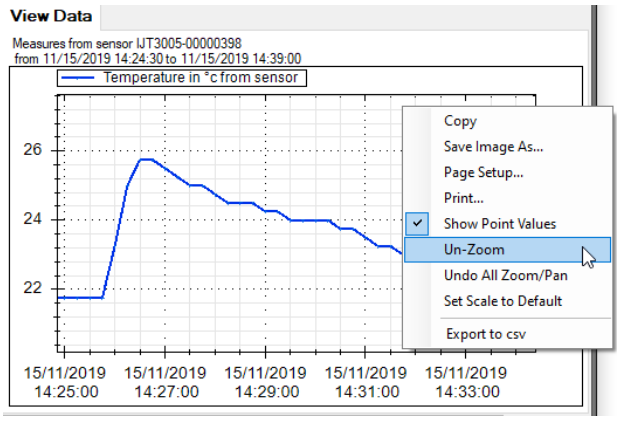
From the graph and/or list of data you find the tab “**Export the measures**” with the choice of different files format and style.
You have 3 options to retrieve the data. Once retrieved, they are displayed on the graph



You can zoon into the graph with your cursor clicked. By passing your cursor along the curve you are able to check the measures. To un-zoom the graph, right click and choose from the menu “Un-zoom”.

From this menu you can also save the graph as an image, and other options.

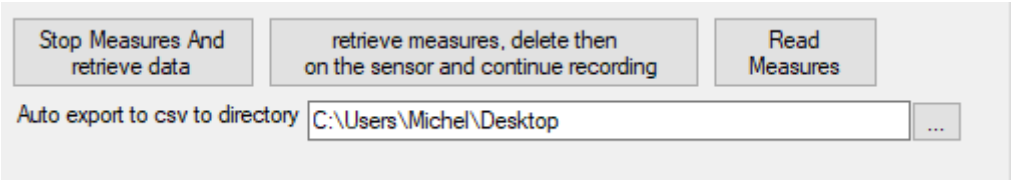




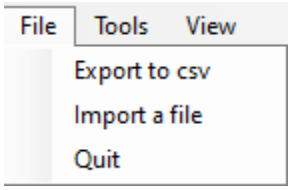
4.3 Data export

There are different ways of exporting the data :

- You can export the measures directly from the graph by right clicking on it, choosing from this menu “Export to csv”.
- The same option is available from the top menu. Choose “File” and “Export to csv”.
- Finally to automatically export the data, choose a directory like bellow example :

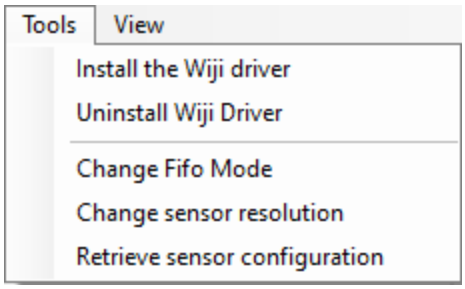


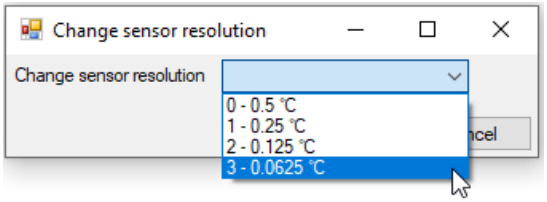
4.4 Menu options



From the **File menu** you can

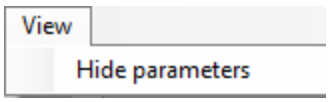
- Export data to csv
- Import a configuration file with data (.bin) from a sensor, even while not connected.
- Quit the software





From the **Tools menu** you can
- Install the Wiji driver or uninstall it
- Change the memory recording mode
- Change the sensor resolution as desired
- Retrieve a sensor configuration

From the **View menu** you can hide the parameters to reveal the graph only in a bigger size



5 Revision of the document

Date	Revision	Writer(s)	Modifications
11/21/2019	2A01	D. MAHE A. TRIBALLIER	Creation of the document and translation