



Translation of the Original Operating instructions

IFCBT-Dongle

Bluetooth-device

Catalog No.
551-060

From software version
1.4.2

lina72en1-01-(2407)



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Table of Contents

1 About this Manual	4
1.1 Target Groups	4
1.2 Warnings	4
2 Safety.....	5
2.1 Intended use	5
2.2 Duties of the Operator	6
2.3 Owner Requirements	6
2.4 Dangers.....	6
3 Scope of Delivery, Transport, Storage	7
4 Description.....	8
4.1 Function	8
4.2 Design of device.....	9
4.3 Technical Data	10
4.3.1 Mechanical data.....	10
4.3.2 Ambient conditions.....	10
4.3.3 Electrical data	11
5 Install IFCBT Dongle	12
6 Operation	13
7 Cleaning	14
8 Certificates.....	15
8.1 CE Declaration of Conformity.....	15
8.2 Radio certificates for the IFCBT Dongle.....	16

1 About this Manual

This document applies to IFCBT-Dongle with the specified software version see title page.

Product names may occur in the document, which are added for identification purposes only and belong to the respective owner of the rights.

1.1 Target Groups

This instruction manual is aimed at the operator of the device, at technically qualified specialists, and trained personnel.

1.2 Warnings



DANGER

Imminent hazard resulting in death or serious injuries



WARNING

Hazardous situation resulting in potential death or serious injuries



CAUTION

Hazardous situation resulting in minor injuries

NOTICE

Hazardous situation resulting in damage to property or the environment

2 Safety

2.1 Intended use

The device is a Bluetooth dongle. This allows data to be transferred between INFICON devices.

- Only use the appliance as intended, as described in the operating instructions, in order to avoid hazards due to misuse.
- Comply with application limits, see "Technical Data".

Incorrect usage

Avoid the following unintended uses:

- Use outside the technical specifications, see "Technical Specifications"
- Use of the device in case of recognizable defects
- Use in radioactive areas
- Storage and use of the device in hot environments (surfaces, sunlight....)
- Use of accessories or spare parts, which are not included in this instruction manual
- Using the device in potentially explosive atmospheres
- Operation at too high ambient temperature
- Connection of dangerous electrical voltages to the device interfaces
- Use via Bluetooth with unauthorised devices or non-original INFICON Bluetooth devices.
- Use of the device in the vicinity of dangerous electrical voltages
- Use via SUB-D with unauthorised devices or non-original INFICON devices.
- Use on a PC
- Use with SUB-D extension cables
- Incorrect attachment of the device to an INFICON device
- Note: To avoid possible radio interference, do not operate the device in living areas.
- Using the device in places with strong electromagnetic fields from third-party devices could affect the Bluetooth connection

2.2 Duties of the Operator

- Read, observe, and follow the information in this instruction manual and in the work instructions provided by the owner. This concerns in particular the safety and warning instructions.
- Always observe the complete operating instructions for all work.
- If you have any questions about operation or maintenance that are not answered in this operating instructions, contact INFICON service.

2.3 Owner Requirements

The following notes are for companies or any person who is responsible for the safety and effective use of the product by the user, employees or third parties.

Safety-conscious operation

- Operate the device only if it is in perfect technical condition and has no damage.
- Only operate the device properly in accordance with this instruction manual, in a safety and risk conscious manner.
- Adhere to the following regulations and observe their compliance:
 - Intended use
 - Universally valid safety and accident prevention regulations
 - International, national and local standards and guidelines
 - Additional device-related provisions and regulations
- Only use original parts or parts approved by the manufacturer.
- Keep this instruction manual available on site.

Personnel qualifications

- Only instructed personnel should be permitted to work with and on the device. The instructed personnel must have received training on the device.
- Make sure that authorized personnel have read and understood the instruction manual and all other applicable documents.

2.4 Dangers

The measuring instrument was built according to the state-of-the-art and the recognized safety regulations. Nevertheless, improper use may result in risk to life and limb on the part of the user or third parties, or damage to the unit or other property may occur.

3 Scope of Delivery, Transport, Storage

Scope of delivery

IFCBT-Dongle	Quantity
IFCBT-Dongle	1
Digital operating instructions, to download as PDF from www.inficon.com	1

- ▶ Check the scope of delivery of the product for completeness after receipt.

Transport**NOTICE****Damage caused by transport**

Transport in unsuitable packaging material can damage the device.

- ▶ Keep the original packaging.
- ▶ Only transport the device in its original packaging.

Storage

Always store the device in compliance with the technical data, see Technical data.

4 Description



DANGER

Risk of injury due to electric shock

- ▶ Only use the device on devices approved by INFICON.
- ▶ Only use undamaged devices or adapter cables approved by INFICON.
- ▶ Do not use the device near electrical voltages
- ▶ Attach the device to the intended interface of the INFICON device using the fastening screws.



CAUTION

Risk of injury and damage to the appliance due to falling

- ▶ Only place the device on a level, non-slip and vibration-free surface.



CAUTION

Danger from strong electromagnetic fields

Injury due to malfunction of the device.

- ▶ Never use the device in locations with strong electromagnetic fields.

NOTICE

Material damage due to ESD discharge

Damage caused by working in areas with a high risk of ESD discharge

- ▶ Observe the ESD protective measures.

NOTICE

Damage to property due to interference emission in the medium frequency range

NOTICE

Maximum cable length for the adapter cable 3 m

4.1 Function

The device can be used to transfer data wirelessly between INFICON devices.

Wireless data transmission makes it possible to extend the radius of action considerably.

Data transmission achieves a range of up to 100 meters in the open air and up to 50 meters indoors.

4.2 Design of device



1	Mounting screws
2	SUB-D interface
3	Mounting screws

4.3 Technical Data

4.3.1 Mechanical data

	551-060
Dimensions (W x H x D)	50 x 100 x 20 mm
Weight	approx. 100 gr

4.3.2 Ambient conditions

	551-060
Permissible ambient temperature (during operation)	10 °C to 40 °C
Permissible storage temperature	-10 °C to 60 °C
Minimum humidity (in operation)	> 30% without special requirements
Minimum humidity (in operation)	< 30% without special requirements*
Max. relative humidity up to 31°C	80 %
Max. relative humidity from 31°C to 40°C	Decreasing on linear basis from 80% to 50%
Max. relative humidity above 40°C	50 %
Relative humidity during storage and transport	Minimum 10% Maximum 90%
Pollution degree	2
Max. altitude above sea level	2000 m
Degree of cleanliness of the operating environment (clean room or clean room class)	ISO CLASS 6
Indoor oder Outdoor using	Only in a dry environment and non-condensing moisture

* Use of the IFCBT-Dongle only after consultation with INFICON GmbH.

4.3.3 Electrical data

Electrical data

	551-060
Name	IFCBT-Dongle
Current	60mA
Voltage	5- 24 V DC \pm 10%
Electronic interfaces	RS232, Bluetooth
Radio Technology	Bluetooth
Frequency Range	2400 - 2483.5 Mhz
RF Output Power (dBm)	8 dBm (< 20 dBm)

5 Install IFCBT Dongle

Attach the IFCBT-Dongle to the appropriate interface or adapter on the INFICON device. Tighten the fixing screws properly.

Please refer to the operating instructions for the INFICON device or contact INFICON Service to find out which adapter you need.



1	Service buttons	4	Mounting screws
2	Green LED	5	SUB-D interface
3	Orange LED	6	Mounting screw

Obstacles such as walls, doors and furniture dampen the Bluetooth signal. An RS232 extension cable (max. 3 m long) can be used to optimize the radio range. This allows the IFCBT-Dongle to be positioned flexibly at a location where there are as few direct obstacles as possible between the IFCBT-Dongle and the UL device.

The service buttons may only be used by INFICON employees or trained personnel.

6 Operation



1	Green LED
2	Orange LED

When a Bluetooth connection is established, the green and orange LEDs light up continuously.

If there is no connection, the LED flashes green.

7 Cleaning



CAUTION

Injury due to improper handling of liquids

Damage or explosion of the appliance due to cleaning with liquids

- ▶ Only clean the appliance with a dry or slightly damp cloth.

8 Certificates

8.1 CE Declaration of Conformity



We – INFICON GmbH - herewith declare that the products defined below meet the basic requirements regarding safety and health and relevant provisions of the relevant EU Directives by design, type and the versions which are brought into circulation by us. This declaration of conformity is issued under the sole responsibility of INFICON GmbH.

In case of any products changes made, this declaration will be void.

Designation of the product:

Bluetooth-Dongle

Models: **IFCBT-Dongle**

Catalogue number: 551-060

The products meet the requirements of the following Directives:


- *Directive 2014/53/EU (RED)*
- *Directive 2011/65/EU (RoHS)*

Applied harmonized standards:


- *EN 300 328 V2.2.2*
- *EN 301 489-1 V2.2.3*
- *EN 301 489-17 V3.2.4*
- *EN 55032:2015*
- *EN 61326-1:2013*
- *EN ISO 61326-1:2021*
- *EN 55011:2021*
- *EN 62479:2010*
- *EN ISO 61010-1: 2020-03*
- *EN IEC 63000:2018*

The notified body TUV Rheinland LGA Products GmbH, NB No.: 0197 performed an EU-type examination and issued the EU-type examination certificate: RT 60175557 0001

Cologne, May 7th, 2024


p.p. **Dr. H. Bruhns**, Vice President LDT

Cologne, May 7th, 2024


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8.2 Radio certificates for the IFCBT Dongle

Important notice FCC:

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.

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.



Contains FCC ID: 2BFIX-1101102

Important notice ISED:

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."

This equipment complies with Industry Canada radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme à l'exposition aux rayonnements Industry Canada limites établies pour un environnement non contrôlé.

Contains IC: 32279-1101102

ARIB Declaration of conformity

Japanese Radio Law Compliance.

This device is granted pursuant to the Japanese Radio Law.

This device should not be modified (otherwise the granted designation number will become invalid)



R 201-190950

Important notice Singapore:

Complies with
IMDA Standards
DA107953



Due to our continuing program of product improvements, specifications are subject to change without notice.
The trademarks mentioned in this document are held by the companies that produce them.