Translation of the original operating instructions

# SMART-Spray

## Helium Spray Device

Catalog No.
551-050, 551-551

lins32de-01-(2405)

From software version
4.1.5

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# 1 About this Manual

This document applies to the SMART-Spray indicated on the 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 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**

## 1.2 Target Groups

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

# 2 Safety

## 2.1 Intended use

The device is a mobile helium spraying device. This allows the test specimen to be pressurized with helium from the outside, which is indicated in the event of a leak.

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

**Incorrect usage**

Avoid the following unintended uses:

- Use outside the technical specifications, see "Technical Specifications"
- Use of non-original INFICON batteries/rechargeable batteries
- Pushing body parts with the tip of the device
- Use with non-INFICON leak detector
- Use of the device in case of recognizable defects
- Use in radioactive areas
- Use of non approved pressure cans. Pressure cans that have been filled with too high a pressure (> 6 bar relativ) or have a direct gas supply instead of a pressure can.
- Using the device without using the lanyard or with a defective lanyard.
- Use of gases other than helium (oxidizing, flammable, toxic, explosive) or helium concentrations other than those specified
- Spraying gas in the direction of the face, ear or eye.
- 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
- Use in residential areas, business/commercial areas, small businesses
- Filling of unauthorized containers (cans, balloons, gloves, ...)
- Fascia panels with integrated lighting
- Flushing (e.g. for cleaning) with liquids or gases via the gas connection
- Permanent switching (e.g. with clamping device, cable tie) of the actuation
- Using the device in potentially explosive atmospheres
- Placing the device in a location where strong electromagnetic fields from third-party equipment may affect the measuring results.
- 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
- Note: This device is not intended to be used in living areas.

## 2.2 Duties of the Operator

- Read, observe, and follow the information in this 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 for item number 551-050

| Item | Quantity |
|---|---|
| SMART-Spray | 1 |
| Digital operating instructions, to download as PDF from www.inficon.com | 1 |
| Charging cable | 1 |
| Battery | 1 |
| HeliCan Helium container 50 ml | 2 |
| BT-Dongle | 1 |
| Hand strap | 1 |
| Adapter | 1 |
| Adapter cable for BT-Dongle | 1 |

### Scope of delivery for item number 551-051

| Item | Quantity |
|---|---|
| SMART-Spray | 1 |
| Digital operating instructions, to download as PDF from www.inficon.com | 1 |
| Charging cable | 1 |
| Battery | 1 |
| Hand strap | 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.

► Remove the screwed-in cartridge before transport.

**Storage**

Always store the device in compliance with the technical data, see Technical Data [▸ 15].

Only store and transport the appliance without the HeliCan screwed in.

# 4 Description

## 4.1 Function

In vacuum leak detection, gas is pumped out of a test specimen and fed to the leak detector.

With the SMART-Spray, a preset amount of helium can be sprayed onto the outside of the test block. If helium is then detected in the leak tester, this means that the test specimen is leaking. The amount of helium from the SMART-Spray is sufficient to detect a leak without unnecessarily contaminating the test object with helium. As a result, the helium background is degraded more quickly and the next test point can be tested more quickly.

The measurement of the leak detector can be transmitted simultaneously to the SMART-Spray via Bluetooth. This function is currently available in INFICON UL series leak detectors.

## 4.2 Device structure of the SMART-Spray

*Fig. 1:* SMART-Spray Side view

| | | | |
|---|---|---|---|
| 1 | HeliCan Helium container | 5 | Handle |
| 2 | USB-C port | 6 | Battery case |
| 3 | Insulated spray tip | 7 | Hand strap |
| 4 | Push button | | |

The following information can be read on the display:

- Measured leak rate on the leak detector
- Battery charge
- Number of remaining sprays
- Qmax (maximum measured leakage rate)
- Set spray shot size
- Fill level of the HeliCan.
- Leak detector status (runup / standby / purge)
- Signal strength of the Bluetooth signal

LEDs on the top of the device provide an optical display:

- for the active spray blast with helium
- for the leakage rate
- Error message
- In charging mode, also the charge status of the batteries

The following buttons are located on the control panel for operation:

- Nach oben scrollen ⋀

- Scroll downwards ∧
- Back button
- Confirmation button, Zero / Set

*Fig. 2:* SMART-Spray Top View

| | | | |
|---|---|---|---|
| 1 | Spray tip | 5 | HeliCan |
| 2 | USB-C port | 6 | Leak rate display |
| 3 | Display | 7 | Status display |
| 4 | Control panel | | |

### 4.2.1 Display /Control Unit

*Fig. 3:* Display

| | | | |
|---|---|---|---|
| 1 | Available sprays | 6 | Zero / Set |
| 2 | Set spray shot size | 7 | ∧ |
| 3 | Fill level HeliCan | 8 | ∨ |
| 4 | Bluetooth signal strength | 9 | Switch on / off / back |
| 5 | Battery level | | |

# 4.3 Technical Data

## 4.3.1 Mechanical data

| | 551-051 |
|---|---|
| Dimensions (W x H x D) | 10 x 40 x 20 cm |
| Weight with HeliCan 50ml | approx. 540 gr |
| Weight with HeliCan 405ml | approx. 580 gr |

## 4.3.2 Ambient conditions

| | 551-051 |
|---|---|
| Permissible ambient temperature (during operation) | 10 °C to 40 °C |
| Permissible storage temperature | -10 °C to 60 °C |
| Minimum humidity (in operation) | > 30% |
| 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 |

### 4.3.3 Electrical data

| | 551-051 |
|---|---|
| Name | SMART-Spray |
| Current | 600mA |
| Voltage | 3.65 V DC ±10 % |
| Electronic interfaces | USB-C, Bluetooth |
| Radio Technology | Bluetooth |
| Frequency Range | 2400 - 2483.5 MHz |
| RF Output Power (dBm) | 8dBm (<20dBm) |
| USB-C charging voltage | 5 V DC ±10 % |

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

## 4.4 Factory Settings

If you reset the SMART-Spray to the factory setting, the connection to the leak detector is interrupted and the favorite and the daily spray burst counter values are reset.

| | |
|---|---|
| Dispense Time | 1.6 seconds |
| Flow rate | S |
| Sound Type | LOW |
| Vibration Type | on |
| Canister Type | 50 ml |

# 5 Installation

**⚠ DANGER**

**Risk of death from electric shock**

If a spray tip with defective insulation comes into contact with live parts, there is a danger to life.

► Only use spray tips with undamaged insulation.

► Do not touch any live parts with the device.

**⚠ WARNING**

**Risk of injury from explosion due to blocked or dirty ventilation slots**

Explosion of the appliance due to blocked or dirty ventilation slots

► Keep the ventilation slots clear.

► Clean the ventilation slots regularly,

**⚠ CAUTION**

**Risk of injury due to heat**

Damaged or deformed device

► Do not use the appliance near hot surfaces.

**⚠ CAUTION**

**Risk of injury due to improper installation of accessories**

► Check that the spray tip is firmly seated.

► Check that the HeliCan is firmly seated.

► Check that the battery compartment is properly closed.

**⚠ CAUTION**

**Risk of injury from falling**

Damage to the device due to falling

► Always use the hand strap when carrying the device.

► Only place the device on the battery compartment on a level, stable and vibration-free surface.

► Make sure that the device cannot be knocked over.

**Do not use the device in living areas.**

## 5.1 Mount the BT-dongle on the leak detector

### 5.1.1 Attaching the BT dongle

Set the connection to SMART-Spray on the display of the leak detector under the following menu item, if this is not already preset.

1. > Setup > Accessories > Device selection
2. Save .

**Cable length maximum 3 meters**

*Fig. 4:* BT-Dongle

**Bluetooth Adapter**

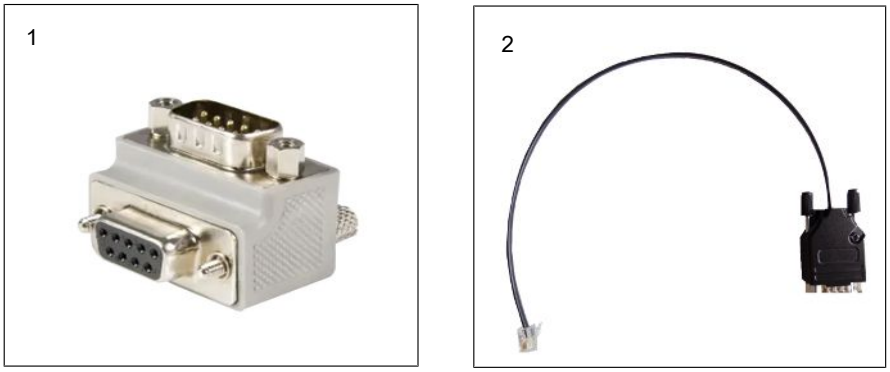



*Fig. 5:* Adapter for IFCBT dongle for various devices in the UL series

| | |
|---|---|
| 1 | D-Sub 9 angle adapter |
| 2 | Adapter Western plug to D-Sub 9 |

**Interfaces on UL series devices**

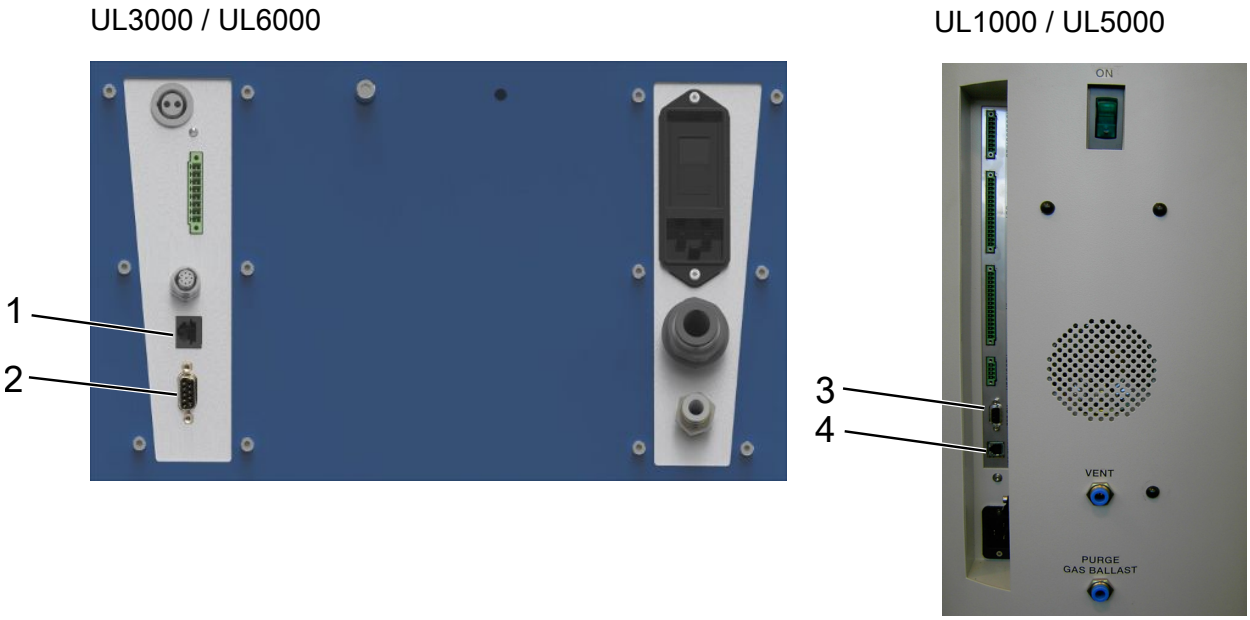



*Fig. 6:* Connection to UL series

| | | | |
|---|---|---|---|
| 1 | Remote 1 for UL3000 / UL6000 | 3 | Remote connection for UL1000 / UL5000 |
| 2 | Remote 2 for UL3000 / UL6000 | 4 | Remote 1 for UL1000 / UL5000 |

**The software version of your UL series device must be 1.42 or higher.**

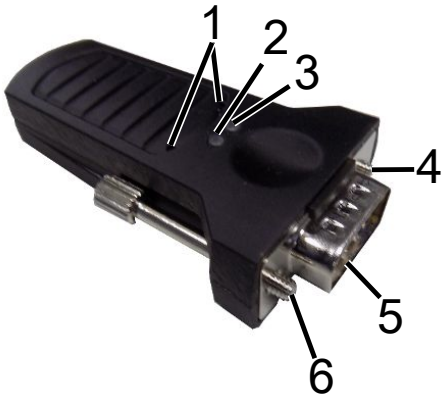
If you are unable to establish communication with the UL3000/6000 using the SMART-Spray, please check the version of the basic device software. It must be at least V1.42 or higher.

If you require a software update, please contact INFICON customer service

► Attach the BT-Dongle to the appropriate interface or adapter on the INFICON device and tighten the fastening screws properly.

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

### 5.1.2 BT dongle in operation




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

The green and orange LEDs light up continuously when a Bluetooth connection is established.

The green LED flashes if there is no connection.

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

## 5.2 Attach spray tip

**⚠ WARNING**

**Injury due to improper handling**

Injury caused by the spray tip

► Never point the spray tip at parts of the body, such as the eyes.

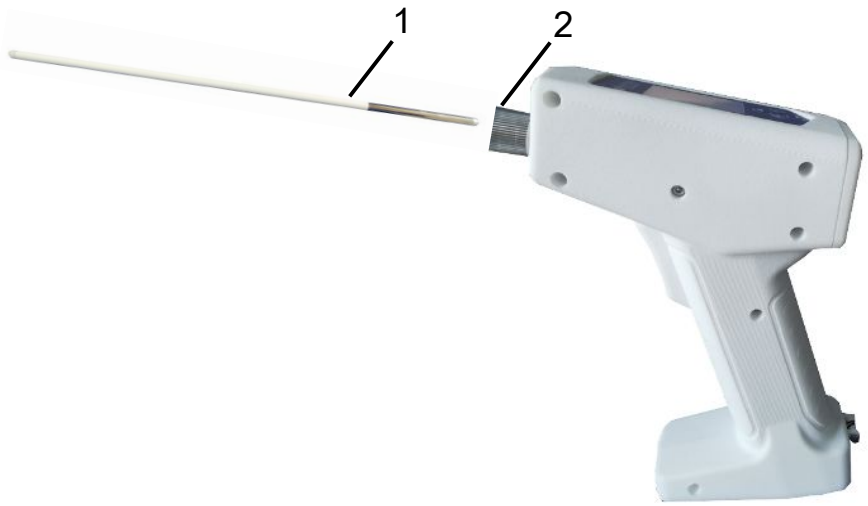
► Never spray helium on other people.

► Lower the spray tip during transportation.

**NOTICE**

**Escaping helium due to improper attachment of the spray tip**

► Mount the spray tip properly on the device.




| | |
|---|---|
| 1 | Spray tip |
| 2 | Captive knurled nut |

✓ Spray tip available

✓ SMART-Spray availible

***1*** Loosen the captive knurled nut

***2*** Position the spray tip correctly and insert the spray tip with light pressure as far as it will go.

***3*** Tighten the captive knurled nut hand-tight and check that the spray tip is properly secured by pulling gently.

⇨ You have fitted the spray tip.

## 5.3 Screw in HeliCan

**⚠ DANGER**

**Health hazard due to escaping gas**

Poisoning due to escaping gas

► Only use helium, no other gases.

► Carry out a visual inspection of the SMART-Spray and the HeliCan for damage.

**⚠ WARNING**

**Danger due to incorrectly dimensioned cartridge**

Explosion of the HeliCan or damage to the device

► Only use Only use HeliCan helium containers from INFICON. helium containers from INFICON.

► Only use HeliCan that are filled with helium.

► Only use HeliCan that are filled to a maximum pressure of 6 bar.

► Screw in the HeliCan helium container hand-tight.

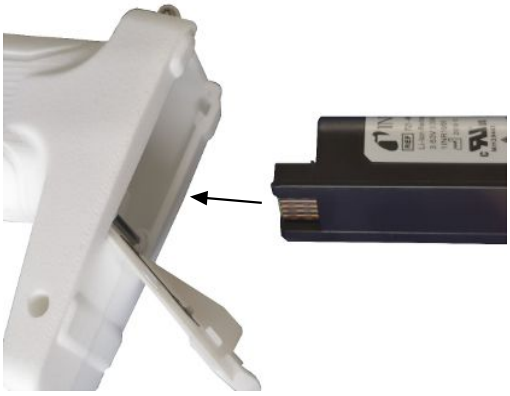
## 5.4 Insert battery

**⚠ WARNING**

**Risk of injury due to a damaged battery or a battery that does not come from INFICON**

No or faulty function of the SMART-Spray

► Only use rechargeable batteries that come from INFICON and are undamaged.



## 5.5 Charging the battery

**⚠ CAUTION**

**Injury or damage**

Injury due to electric shock

Damage to the SMART-Spray

► Only use chargers, charging cables and batteries that come from INFICON and are undamaged.

**Malfunction due to incorrect USB cable**

► Observe the specified cable length; cable lengths must not be exceeded.

► Cable length maximum 3 meters

### 5.5.1 Charging the battery via USB-C

Plug the supplied charging cable into the USB-C port, see "Device structure of the SMART-Spray [▸ 12]".

### 5.5.2 Charging the battery in the charger

Place the battery in the charger and connect the charger to a charging socket via the USB interface.

# 6 Operation

**⚠ WARNING**

**Health hazard due to escaping helium**

Risk of suffocation and/or fainting

► Only use the appliance in well-ventilated rooms.

► Only use helium, no other gases.

⇨ **Filling station**

► Filling of HeliCan by means of filling station only with HeliCan firmly screwed in.

► Check all components for damage.

► Stop the filling process at HeliCan immediately if there is a leak.

► Stop the filling process after 15 seconds at the latest.

► Always remove HeliCan completely from the SMART-Spray if you want to detach HeliCan.

**NOTICE**

**Material damage due to electromagnetic magnetic fields**

Valves can open and HeliCan empties.

Never use the device in locations with strong magnetic 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.

## 6.1 Menu

Press the button ∨ to access the menu, see "Display /Control Unit".

The following menu items are available:

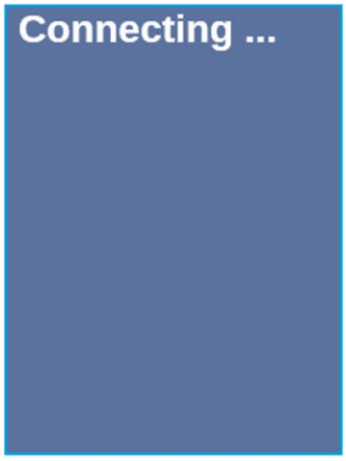
| Menu | Name | Description |
|---|---|---|
| 1 | Refresh Qmax | Change Qmax (*) |
| 2 | Scan for leak detector | Scanning for leak detectors |
| 3 | Start/Stop LD | Start/stop leak detector (*) |
| 4 | Show Leak Graph | Display leak diagram or leak rate |
| 5 | Select Gas Can Type | Select HeliCan (50 ml / 405 ml) |
| 6 | Set Vibration On | Switch on the vibration alarm |
| 7 | Set Sound Type | Setting the volume of the SMART-Spray. |
| 8 | Set Dispense Time | Setting the spraying time |
| 9 | Turn Illumination on | Front LED light on/off |
| 10 | Select Flow Rate | Select the flow rate setting (s, m ,l ,xl) |
| 11 | Table Available Spray Shots | Available sprays |
| 12 | Certificates | Certificates |
| 13 | Factory Reset | Reset to factory settings |
| 14 | About device | About the device |

(*) only if the leak detector is connected to the SMART-Spray via Bluetooth.

## 6.2 Switching on

► Press the on/off switch. THE SMART-Spray starts.

The start screen appears.



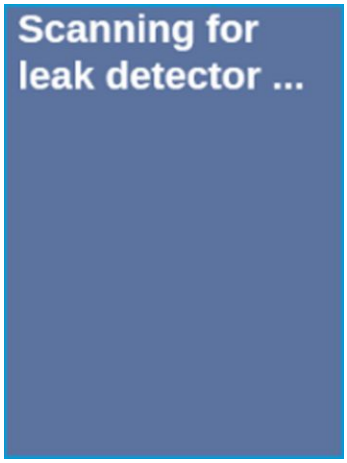
# 6.3 Connect with leak detector

### RS-232 interface for Bluetooth dongle

Connect the SMART-Spray to an available UL series device via Bluetooth. To do this, the Bluetooth dongle must be connected to the interface on the UL device using the appropriate adapter, see "Mount the BT-dongle on the leak detector [▸ 18]".

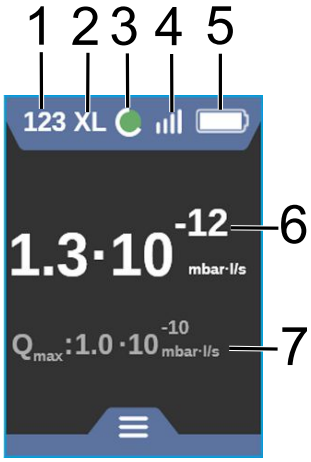
### Connect device to UL series

Select the UL device shown in the SMART-Spray display. SMART-Spray then automatically connects to the UL device.




SMART-Spray is connected

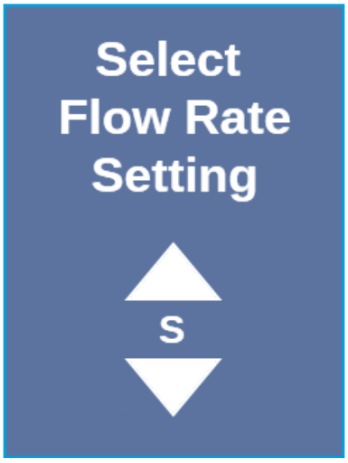
### Display




| | | | |
|---|---|---|---|
| 1 | Available sprays | 5 | Battery level |
| 2 | Set spray size | 6 | Leak rate |
| 3 | Fill level HeliCan | 7 | Highest measured leakage rate since activation |
| 4 | Bluetooth signal strength | | |

## 6.4 Select flow rate

1. Use the arrow key ∨ to go to the Select Flow Rate see, "Display /Control Unit [▸ 14]".
2. Select the helium flow rate.
   S = approx 5 - 10 sccm
   M = approx 55 - 65 sccm
   L = approx 230 -260 sccm
   XL = approx 1000 - 1300 sccm
3. Confirm the selected helium flow rate with the Zero / Set button.




4. Press the button ∧ to change the flow rate during operation.
5. Exit the menu with the Back button.

## 6.5 Select HeliCan volume

1. Use the arrow key button ∨ to go to the Select Canister Type menu, see, "Display /Control Unit [▸ 14]".
2. Select the HeliCan:
   - HeliCan 50 ml
   - HeliCan 405 ml
3. Confirm the selected HeliCan with the Zero / Set button.

4. Exit the menu with the Back button.

## 6.6 Switching the LED work light on and off

**⚠ CAUTION**

**Glare from LED work light**

Short-term impairment of the eye

► Do not look directly into the LED work light or dazzle third parties with it.

1. Select "Turn Illumination on" in the menu.
2. Select "on" for LED work light.
3. Select "off" for LED work light.
4. Exit the menu with the Back button.

## 6.7 Switching the vibration alarm on and off

**⚠ CAUTION**

**Risk of injury due to use of the vibration alarm**

Danger of being startled when the vibration alarm starts

Always carry the SMART-Spray in the hand strap.

1. Use the arrow button ∨ to go to the "Set Vibration On" menu item.
2. Select "On" for the vibration alarm.
3. Select "Off" for the vibration alarm.
4. Exit the menu with the Back button.

## 6.8 Call up electronic label

1. Use the button ∨ to go to the Certificates menu, see "Display /Control Unit [▸ 14]".

2. Confirm with the Zero / Set button.

3 Use the ∧ and ∨ keys to scroll.

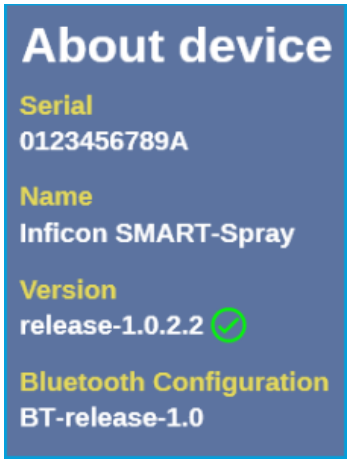
4 Exit the menu with the Back button.

## 6.9 About the device

1 Use the button ∨ to go to the About Device menu, see "Display /Control Unit [▸ 14]".

2 Confirm with the Zero / Set button.

3 Exit the menu with the Back button.




## 6.10 Setting the volume of the SMART-Spray

⚠ **CAUTION**

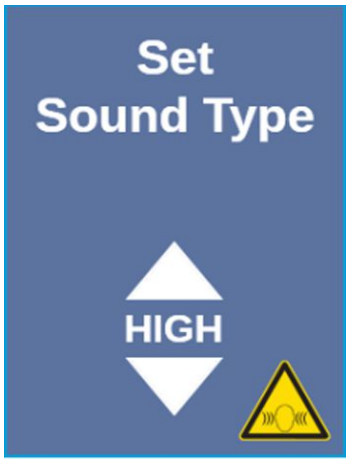
**Damage to hearing due to loud audio**

The alarm level of the device can exceed 85 dB (A).

► Set the volume up to a maximum of "5".

► Use suitable hearing protection at set volumes above "5".

1. Use the arrow button ∨ to go to the Set Sound Type menu item.
2. Select the volume and confirm the selected volume with the Zero / Set.
3. Exit the menu with the Back button.




## 6.11 LED status display

| | |
|---|---|
| 1 | Status display |
| 2 | Leakage indicator |

## 6.12 Filling the HeliCan via the filling station

**⚠ DANGER**

**Danger from escaping helium or excessive pressure during filling.**

Only fill the HeliCan with the INFICON filling station.

For handling the INFICON filling station, please refer to the INFICON filling station operating instructions.

## 6.13 Application of the SMART-Spray

### 6.13.1 Starting and stopping the UL-device

**SMART-Spray must be connected to a UL series device via BT-Dongle.**

1. Select "Start" in the menu to start the UL series device.
2. Select "Stop" in the menu to Stop the UL series device.

### 6.13.2 Carry out leak detection

SMART-Spray is switched on and connected to the UL series device and all parameters are set, see "Installation [▸ 17]".

**The threshold value is set on the UL series device.**

► Spray helium by pressing the pushbutton on the SMART-Spray at the point to be tested on the test specimen. The set spray burst is triggered, the status light on the SMART-Spray lights up green if the spray burst has been carried out correctly.

⇨ Leakage can be read on the display of the SMART-Spray and on the display of the UL series device.

⇨ The leakage is also indicated by an LED on the SMART-Spray.

- Green LEDs = test specimen is OK.
- Yellow LEDs = test body shows leak within tolerance.
- Red LEDs = test body shows leak outside tolerance.

### 6.13.3 Use the Zero function

**Why should I use ZERO?**

The ZERO function should be used to measure small leaks more clearly.

With every leak test, there is a "background signal" that interferes with the search for or measurement of leaks.

- To hide the background signal, activate the ZERO function.
- You can also use ZERO to hide a currently displayed leakage, which interferes with searches for other or even smaller leaks.

**A currently displayed leak is ZERO hidden through ZERO.**

By using the function ZERO not only is the background signal hidden, but also the representation of a current leak.

► If you want to avoid this, only activate the ZERO function if a leak is not being measured at the same time.

**Switch ZERO on**

Briefly press the Zero / Set button on the control panel and ZERO is performed.

**Switch ZERO off.**

Press the Zero / Set button on the control panel for longer than 2 seconds and ZERO is deactivated.

# 7 Cleaning and Maintenance

**⚠ WARNING**

**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.

**⚠ WARNING**

**Injury due to explosion or damage**

Injury due to explosion of the HeliCan

► Before cleaning or maintenance, remove the HeliCan.

## 7.1 Replace spray tip

**⚠ WARNING**

**Injury due to improper handling**

Injury caused by the spray tip

► Never point the spray tip at parts of the body, such as the eyes or other parts of the body.

► Never spray helium on other people.

► Lower the spray tip during transportation.

**Material damage due to escaping helium caused by improper attachment of the spray tip**

Helium flows out

► Attach the spray tip properly.

**Replace spray tip**

1. Loosen the captive knurled nut
2. Pull out the spray tip.
3. Position the spray tip correctly and insert the spray tip with light pressure as far as it will go.
4. Tighten the captive knurled nut hand-tight and check that the spray tip is properly secured by pulling gently.

⇨ You have fitted the spray tip.

## 7.2 Exchange HeliCan

**⚠ CAUTION**

**Health hazard due to escaping helium**

Risk of suffocation and/or fainting

► Only use the appliance in well-ventilated rooms.

► Screw in the HeliCan hand-tight.

► Only use helium, no other gases.

► Check all components for damage.

*1* Loosen the HeliCan and remove it.

*2* Position the new helium container correctly and tighten it hand-tight.

⇨ HeliCan is fitted.

# 8 Zertifikate

## 8.1 CE Declaration of Conformity

INFICON

CE

***EU 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:

**Helium Spray Device**

Models: **SMART-Spray**

Catalogue number: **551-051**

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 60175556 0001**

Cologne, May 7th, 2024

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

Cologne, May 7th, 2024

pro
W. Schneider, Research and Development

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INFICON

CE

## *EU 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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W. Schneider, Research and Development

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## 8.2 Radio Certificates

**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 Malaysia:**

MCMC

ID: XXYYZZXXYY

**Important notice Hong Kong:**

Certified for use in Hong Kong
經驗證可在香港使用

Certificate No. 證書號碼
ZZZZZYYXXXXX

通訊事務管理局
COMMUNICATIONS
AUTHORITY

**Important notice Mexico:**

La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada

NOM

IFT: XXXXXXXX-XXXXX

**Important notice South Korea:**

R-R-If5-551-051

**Important notice Taiwan:**

取得審驗證明之低功率射頻器材，非經核准，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。低功率射頻器材之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

CCXXxxYYyyyZzW

**Important notice Singapore:**

Complies with
IMDA Standards
DB XXXXXXXXXX

**Important notice China:**

CMITT ID: XXXYYYZZZZ

# 9 Accessories

Folgende aufgeführte Teile können als Zubehör bestellt werden

| | |
|---|---|
| SMART-Spray | 551-051 |
| BT-Dongle | 551-060 |
| Adapter für BT-Dongle UL1000 / UL5000 | 551-061 |
| Winkeladapter für BT-Dongle UL3000 / UL6000 | 551-062 |
| Halteblech für BT-Dongle UL3000 / UL6000 | 551-063 |
| Flexible Sprühspitze | 551-064 |
| Leere HeliCan 50 ml | 551-065 |
| Leere HeliCan 405 ml | 551-066 |
| HeliCan 50 ml 6 bar | 551-067 |
| HeliCan 405 ml 6 bar | 551-068 |
| HeliCan 405 ml 2,9 bar | 551-068A |
| Koffer leer | 551-069 |
| Befüllstation für HeliCan | 551-070 |
| Befülladapter für Sprühspitze | 551-071 |
| Flow-Check | 551-072 |
| Schutzhülle SMART-Spray | 551-073 |
| Batterieladegerät | 551-080 |
| Batterie | 551-085 |
| Batterie mit Ladegerät | 551-081 |
| I•BOOST | 551-600 |
| Sprühspitze | 200013575 |

INFICON Inspired by visions. Proven by success.

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