

OPERATING INSTRUCTION

lina15en1-05-(1806)

CE



Catalog No.:
551-010
551-015

from software
version V1.5

RC1000

Remote control for leak test equipment

 **INFICON**

Imprint

INFICON GmbH
Bonner Straße 498
50968 Köln
Germany

Copyright© 2018 INFICON GmbH, Cologne.
This document may not be reproduced in any form without the
permission of INFICON GmbH, Cologne.

Content

1	Operating instructions	5
1.1	How to use this manual	5
1.2	Warning and danger symbols	5
1.3	Glossary	6
2	Important safety instructions	7
2.1	Intended use	7
2.2	User requirements	7
2.3	Restrictions of use	8
2.4	Hazards in the event of intended use	8
3	Description of the RC1000	13
3.1	Use	13
3.2	Operating Elements	14
3.3	Back of the RC1000	16
3.4	Supplied equipment	17
4	Installation	18
4.1	Connection to the leak detector	18
4.2	Connecting radio transmitter and leak detector	19
4.3	Inputs and outputs	20
4.4	Wall plug-in power supply	22
5	Operating the remote control	24
5.1	Starting up the RC1000	24
5.2	Touch display operation	25
5.3	Main menu for configuration	27
5.3.1	Buttons with basic functions	28
5.3.2	Connecting / disconnecting (RC1000WL)	29
5.3.3	Setting the trigger level	30
5.3.4	Scale: scaling of the leak-rate curve	31
5.3.5	Sound volume	33
5.3.6	Recorder	34
5.3.7	Info: device information	36
5.3.8	Miscellaneous	37
5.3.8.1	Language selection:	37

5.3.8.2	Energy-saving options (RC1000WL)	38
5.3.8.3	Set Time and Date	39
5.4	Operating the leak detector	40
5.5	Paging function	42
6	Maintenance tasks	43
6.1	Spare parts	43
6.2	Maintenance	43
6.3	Cleaning	44
7	Transport and disposal	45
7.1	Transporting	45
7.2	Disposal	45
8	Technical Data	46
8.1	Weight / dimensions	46
8.2	Characteristics	46
8.3	Environmental Conditions	47
8.4	Mains power for wall plug-in power supply	47
8.5	Wireless permits of RC1000WL	47
9	Ordering information	48
10	Declaration of conformity	48
	Index	52

1 Operating instructions

1.1 How to use this manual

- Please read this manual before commissioning the wireless RC1000WL or the wire-bound RC1000C remote control.
- Keep the manual so that you can use it any time.
- Enclose the operating manual if the device is ever passed on to third parties.
- We reserve the right to alter the design or any data given in this manual.
- The illustrations are not binding.

1.2 Warning and danger symbols


Danger

Specifications for the prevention of bodily injuries of all kinds.


Warning

Specifications for the prevention of severe material and environmental damage


Caution

Specifications for handling or use. Failure to observe these can lead to faults or minor material damage.

1.3 Glossary

Menu

The menu enables the operator of the RC1000WL or RC1000C remote control to program the remote control to reflect their personal preferences. The menu has a tree structure.

"As delivered" status

The condition of the RC1000WL or RC1000C remote control as it left the factory.

RC1000

RC1000C (non-wireless) or RC1000WL (wireless) remote control.

If this manual talks about general functions that apply to both versions, it is called only RC1000.

2 Important safety instructions

Notice: Before commissioning the RC1000 remote control, carefully read all safety instructions and make sure that you have properly understood them.

2.1 Intended use

The RC1000 remote control has been designed to operate the UL1000, UL1000 Fab, UL5000 and Modul1000 leak test devices.

The former wired remote control (catalog no. 200 99 022) can be replaced by the RC1000.

The RC1000 remote control must only be used for the purpose and within the context outlined in this manual.

Use only INFICON accessories.

2.2 User requirements



Skilled personnel

The RC1000 remote control must only be connected and operated by properly trained staff.

- The user must be familiar with the function of the device; he or she may only connect and operate the device after having read and understood the operating instructions.
- The user should consult local, state, and national agencies regarding specific requirements and regulations for devices with wireless transmission capability.
- In case of more questions regarding safety, operation and/or maintenance, the user should contact our nearest representative.

2.3 Restrictions of use



Danger

Danger in explosive environments.
The RC1000C / RC1000WL remote control may only be used away from explosive environments.

2.4 Hazards in the event of intended use



Danger

Possible interference with pacemakers.
The performance of pacemakers may be affected by the magnets on the back of the RC1000C / RC1000WL remote control. Observe the distances indicated by the pacemaker manufacturer.

When handling the remote control RC1000:



Danger

Possible liquid crystal hazard!
If the display has broken, prevent liquid crystals from entering people's mouths or eyes. Use soap and water to wash hands, feet or clothes that have come into contact with liquid crystals.



Danger

Possible radiation hazard.

When the device is operated, a minimum distance of 7 cm between the remote control and people must be observed, with the exception of hands and wrists.

Operation at a shorter distance than indicated above is not allowed. The RC1000 remote control complies with part 15 of the FCC regulations⁽¹⁾.

⁽¹⁾ FCC: Federal Communications Commission, approval authority for communication devices (USA)

When handling the rechargeable battery and power supply:



Warning

Possible short circuit hazard.

In case of a short-circuit the battery might ignite, explode, leak battery fluid, or become overheated and cause burns. Do not short-circuit the battery of the RC1000WL remote control.



Warning

Possible explosion hazard.

The battery of the RC1000WL remote control can explode if it is extreme overheated.

Do not set fire to the battery as it might explode.

Notice: Charging the battery at higher temperatures (> 40° C) decreases its service life.



Caution

Possible risk of damage.
The electronics of the RC1000WL remote control may be damaged by an incorrect supply voltage.
Only use the accompanying wall plug-in power supply.

Environmental conditions of the remote control:

See also [8 Technical Data](#).



Caution

Possible risk of damage.
The RC1000 remote control may be damaged in the open through moisture, strong insolation, or intense dust.
Only use the device inside buildings.



Caution

Possible risk of destruction.
Aggressive substances may damage the RC1000 remote control beyond repair.
Avoid contact between the RC1000 and bases, acids, and solvents, and do not expose it to extreme climatic conditions.



Caution

Possible risk of destruction.
The RC1000 remote control may be damaged beyond repair by penetrating liquid.
Do not switch on the RC1000 remote control if liquid has penetrated the unit.
Contact the INFICON Service Department.

Storage and transportation of the remote control:



Caution

Possible risk of damage.

The RC1000 remote control may be damaged by being stored in unfavourable conditions (too damp, too hot, too cold, too high above sea level) for months or years (see Technical specifications chapter 8).

If the RC1000 remote control has been stored under such conditions, leave it switched off and contact the INFICON Service Department.



Caution

Possible risk of damage.

The RC1000 remote control may be damaged by improper transport.

Always transport the RC1000 remote control in its original packaging.

Cleaning the remote control:

Notice: Clean the plastic housing of the RC1000 remote control, the front foil and the display using a soft cloth, moistened with some water or soap suds. Do not use any solvents!

Operating the remote control:

Notice: The performance and reliability of the RC1000 remote control can only be guaranteed if it is operated under the specified conditions of use (see Technical specifications chapter 8).

Notice: Any changes made to the RC1000 remote control by the user may result in a violation of statutory provisions or may affect the EMC properties and safety of the product. INFICON does not accept any liability for the consequences of such changes.

3 Description of the RC1000

3.1 Use

The RC1000 remote control has been designed to operate the selected INFICON leak detectors.

The RC1000 remote control is accommodated in a robust housing the shape of which enables ergonomic working. Magnets on the underside of the unit enable it to be attached to horizontal or vertical metal surfaces.

The wireless version RC1000WL enables remote operation up to a distance of over 100 m, depending on the reception conditions. The integrated rechargeable battery enables over 8 hours of operation, depending on the battery level.

The leak rates can be displayed in digits or in a curve on the 3.5" colour display.

Measured values of up to several hours of recording can be stored in an internal memory. The data storage interval is adjustable. The data can easily be downloaded to a USB stick via the integrated USB interface to save it.

An internal trigger can be set to provide a warning if the limit leak rates are exceeded. An optical warning is shown on the display and an acoustic warning signal with variable pitch proportionally to the leak rate is sounded on the integrated loudspeaker or the connected headphones.

3.2 Operating Elements



Fig. 1 RC1000 remote control

POWER button

RC1000WL: Power switch. After pressing and briefly holding the switch, the operating LED lights up as confirmation and flashes when the remote control is ready for use.

Switch off by pressing and holding the button for more than 2 seconds.

RC1000C: The remote control turns on when the cable is plugged in.

Pressing the Power button turns the display of the remote control on and off.

START button

Starts the leak test of the leak detector (See 5.4).
(See the Technical Manual of the leak detector, and observe the menu option "Control location").

STOP button

Ends leak testing (See 5.4).

ZERO button

Activates the ZERO function (See 5.4).

Touch Display

Shows measurements displayed numerically or as a curve, indicates statuses and offers operating interfaces.

Operating LED

Flashes during normal operation.

Charging LED (RC1000WL)

Lights up while the battery is being charged.

3.3 Back of the RC1000

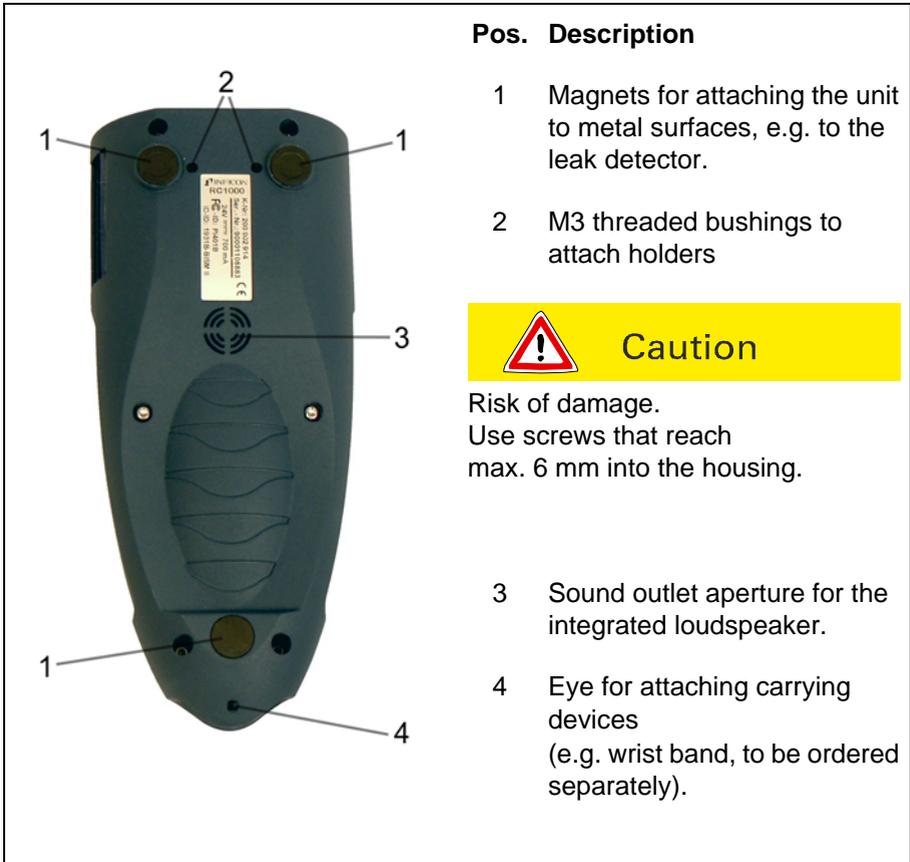


Fig. 2 Back of the RC1000 remote control

3.4 Supplied equipment

Cat.-No. 551-015 Remote control RC1000WL, wireless

Supplied equipment:

- Remote control RC1000WL
- Connection cable, 4 m
- Wall plug-in power supply (for integrated battery)
- Radio transmitter
- Connection cable for radio transmitter
- Operating instructions

Cat.-No. 551-010 Remote control RC1000C, non-wireless

Supplied equipment:

- Remote control RC1000C
- Connection cable, 4 m
- Operating instructions

Cat.-No. 551-020 Radio transmitter (for operating a second leak detector)

Supplied equipment:

- Radio transmitter
- Connection cable
- Installation instructions

4 Installation

4.1 Connection to the leak detector

RC1000WL (wireless)

The RC1000WL remote control is connected to the leak detector by means of a wireless data connection. Connect the leak detector to the radio transmitter for this purpose (see chapter 4.2).

The RC1000WL remote control is shipped set-up for connection with the supplied radio transmitter. This way, the connection is immediately established upon turning the unit on.

Alternatively, it can also be connected by means of the enclosed cable, similar to connecting the RC1000C (non-wireless) remote control. In this case only one connection cable must be used with the RC1000WL, not more.

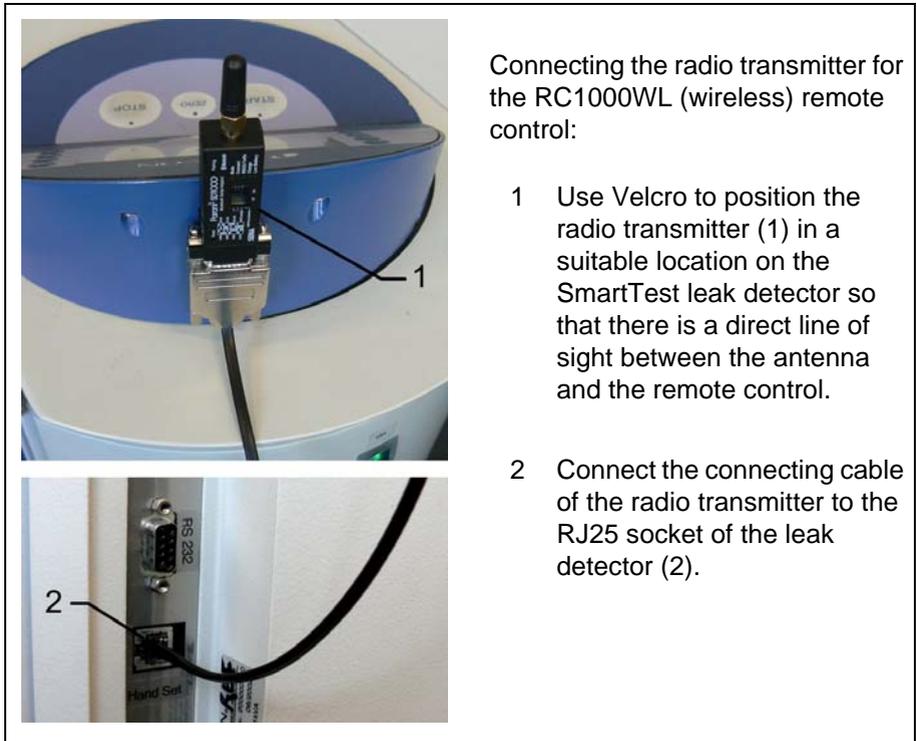
RC1000C (non-wireless)

The RC1000C (non-wireless) remote control is connected to the leak detector by connecting the enclosed connection cable to the RJ 25 socket (see Fig. 4).

The connection cable of the RC1000C can be extended up to 28 m by using one or more extension cables. (Cat.-No. 14022)

Notice: The leak detectors should have at least following software versions:
UL1000/UL1000 Fab and UL5000: SW V4.4,
Modul1000: SW V1.6.

4.2 Connecting radio transmitter and leak detector



Connecting the radio transmitter for the RC1000WL (wireless) remote control:

- 1 Use Velcro to position the radio transmitter (1) in a suitable location on the SmartTest leak detector so that there is a direct line of sight between the antenna and the remote control.
- 2 Connect the connecting cable of the radio transmitter to the RJ25 socket of the leak detector (2).

Fig. 3 Connecting radio transmitter and leak detector (RC1000WL)

Notice: To extend the wireless operating range an extension cable also can be used to position the radio transmitter away from the leak detector, if reception is poor (e.g. at the ceiling of the room).

Notice: The operating range of the radio transmitter will be affected by metal objects in its near, avoid installing the antenna near such objects.

4.3 Inputs and outputs

The inputs and outputs of the RC1000 remote control have covers to prevent large dirt particles and moisture from penetrating.

Notice: The IP42 safety class can only be guaranteed if the covers are closed.

RJ25 socket

The RJ25 socket is located at the underside of the RC1000 remote control and closed with a protective plug when delivered.



Fig. 4 RJ25 socket on the bottom of the remote control

Notice: Leave the protective plug in the socket when the cable is not connected.

Notice: We recommend only inserting and removing the RJ25 plug as often as is necessary for operation.

Connections on the side

Notice: Fold the protective strip upwards before connecting a plug.

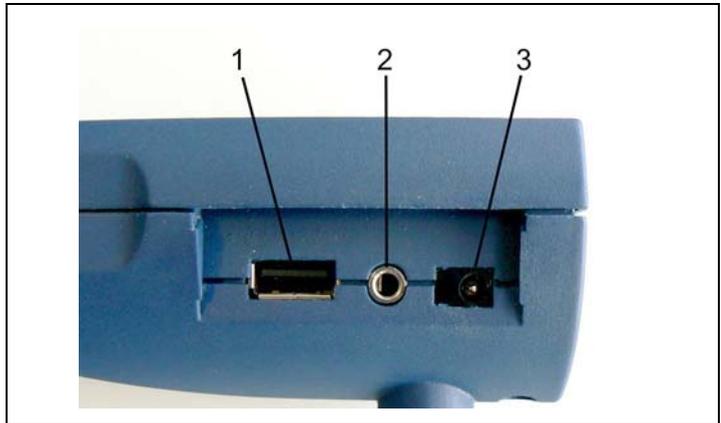


Fig. 5 Connections on the side (without cover)

Pos. Description

- 1 USB connection
Insert the USB stick (FAT formatted) to record data.
- 2 3.5 mm jack for stereo headphones
Standard stereo headphones with a 3.5 mm jack plug and >2x32 Ohm impedance can be connected to the jack.
If the headphones are inserted, the volume of the integrated loudspeaker is automatically lowered.
- 3 Charging socket for the enclosed power supply

4.4 Wall plug-in power supply



Warning

Possible risk of voltage hazard.
Do not open the external power supply of the RC1000WL remote control. This might result in electric shock and/or injuries.



Warning

Risk due to incorrect power supply unit.
Using an external power supply which has not been approved by the manufacturer of the remote control may result in electric shock, damage and/or injuries.
Only use the power supply which was enclosed with the RC1000WL remote control.



Fig. 6 Wall plug-in power supply of the RC1000WL

Connect the plug of the power supply with the socket of the RC1000WL (see [Fig. 5](#), Pos. 3), to charge the integrated battery.

The RC1000WL is always switched on while the power supply cable is connected and the battery is being charged, the Charging LED is lit.

Short pressing of the „POWER“ button reduces the backlight intensity, pressing it for a time longer than about 10 s performs a reset of the remote control.

The LED switches off as soon as the battery has fully charged.

The battery can be charged during operation.

You can use the enclosed power supply all over the world; adapt it with the interchangeable blades to the national design (Europe, North America, Japan, UK, China, Australia, see also [8.4](#)).

5 Operating the remote control

5.1 Starting up the RC1000

After starting up, a start screen with a „Welcome“ message is shown on the touch display.

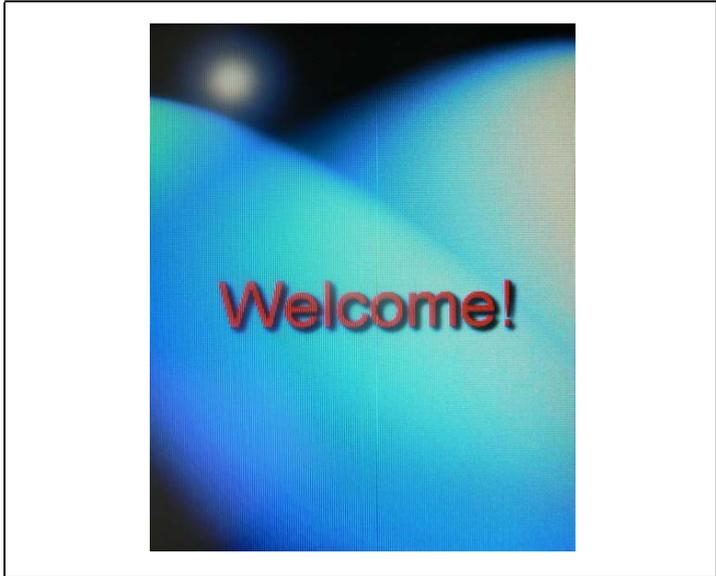


Fig. 7 Touch-Display of the RC1000

The RC1000WL remote control searches for a receiver (radio transmitter) of a leak detector after starting up to connect with it.

If no devices with which a connection is possible were found in the area, a message „no data connection“ is displayed.

The establishing of a data connection is described in chapter [5.3.2](#).

If a data connection with a leak detector is established the RC1000 shows the measuring screen on the display (see [Fig. 8](#)).

5.2 Touch display operation

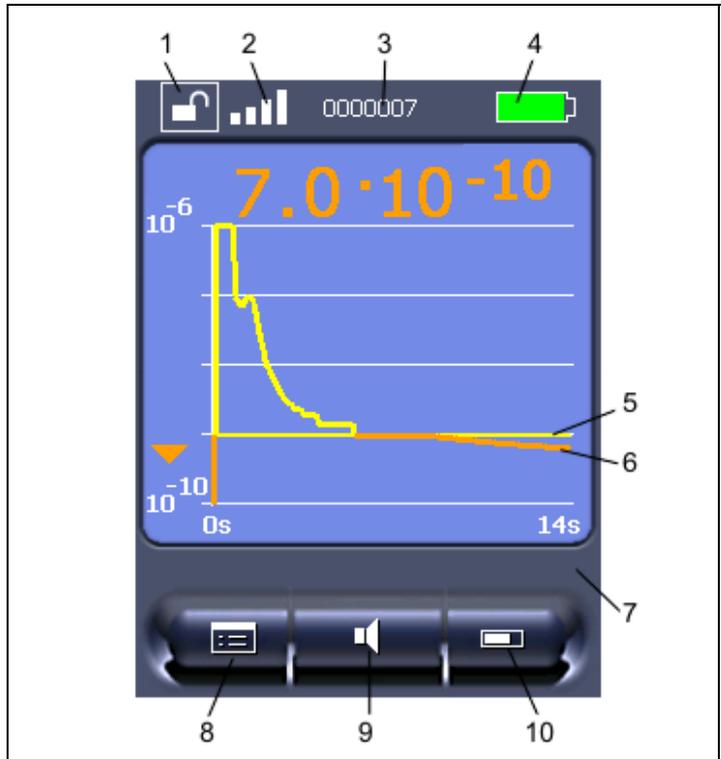


Fig. 8 Symbols and information on the display

Pos. Description

- 1 Lock/unlock buttons
- 2 Wireless connection
- 3 Data set of the entry
- 4 Charging status display
- 5 Trigger level

Pos. Description

- 6 Display of measured values
- 7 Status bar
- 8 Menu (access to the main menu)
- 9 Sound volume
- 10 Toggle display of measured values

Display functions

The touch display functions can be used by lightly touching the relevant symbol on the display with a finger or a blunt pen.

- "Lock buttons":
Touch and hold the symbol for more than 2 seconds to lock out touch display operation.
The buttons then become dark.
Unlock: touch and hold the symbol for more than 2 seconds.
- "Connection":
Shows whether the RC1000WL is connected to the leak test device by a wireless link.
- "Data recording":
The number of the active data record is displayed.
- „Status bar“:
Shows information of the current operational status.
- "Menu":
To access the main menu.
- "Sound volume":
Enables adjusting the volume of the loudspeaker in the leak detector or in the remote control.
- "Toggle display of measured values":
Enables to toggle between a large digital display of the values or a display of the progress over time (diagram).

5.3 Main menu for configuration

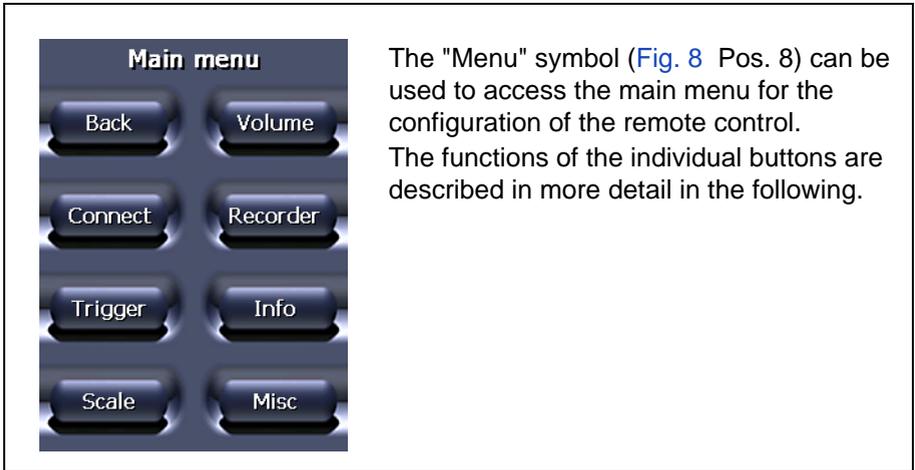


Fig. 9 Main menu on the touch display

5.3.1 Buttons with basic functions

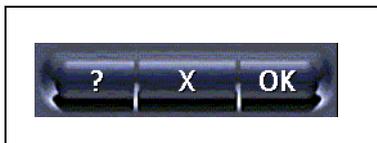


Fig. 10 Buttons with basic functions

If displayed, these buttons have the following functions:

"?"

opens a help window for the current display.

- Click on "?".
- Use the arrow keys to scroll through longer texts.
- Close the window with "OK".

"X"

closes the current page.

No changes made will be saved!

"OK"

closes the current page and saves the changed settings.

The remote control will now work with these settings.

5.3.2 Connecting / disconnecting (RC1000WL)

The RC1000WL remote control searches for a receiver (radio transmitter) of a leak detector after turning on or after pressing the "Connect" button.

If no connection is found in the area within 20 seconds, the search is aborted.

The button "Connect" is displayed in the main menu when there is no connection to a leak detector yet.

After establishing the connection, the function of the button changes to "Disconnect".

Close an existing connection with "Disconnect"; the main menu is displayed.



The screenshot shows a monochrome LCD screen. At the top, it says 'Connectable devices:'. Below this, a list contains one entry: '"IFC_R07870" 00A0962C9F59'. The text is highlighted in blue. Below this list is a large empty white rectangular area. Underneath that, it says 'Other devices:'. Below this, there are two lines of text: '"000C180" 000C3AA16E78' and 'Hell e31050" 6C0E0D01C9FF'. At the bottom of the screen, there are two buttons: 'Connect' on the left and 'Cancel' on the right.

Connecting to a leak detector

- Pressing the "Connect" button of the main menu starts the search.
- If devices with which a connection is possible were found in the area, they are displayed in the list "Connectable devices".
- Select the desired device and connect to it by pressing "Connect". The main menu opens automatically.
- Press "Cancel" to end the connection process and return to the main menu.

Fig. 11 Display of connectable devices for the connection

5.3.3 Setting the trigger level



The screenshot shows a dark blue interface with the text 'Trigger level:' at the top. Below it, the value '2.4 · 10^-06' is displayed. The '2' is highlighted in red. Below the display is a numeric keypad with buttons for digits 0-9, '<', '>', '?', 'X', and 'OK'.

Setting the trigger level:
The basic level and exponent of the trigger level of the remote control are set here.

- The individual input fields can be selected with "<" and ">".
- The selected field is marked red and can be changed.
- Use the numeric keypad to enter the desired digit.
- After entering a digit, the mark changes to the next field.
- Confirm the set level with "OK".

Fig. 12 Trigger level menu

Notice: The trigger level set here does NOT correspond to the trigger lever set on the leak detector but only applies to the acoustic alarm signal of the RC1000 remote control.

5.3.4 Scale: scaling of the leak-rate curve



Scaling options of the leak-rate curve and the bargraph:

- **Q(t) axis:**
Opens a submenu with a choice between linear and logarithmic display of the measured values and the automatically scaling (see Fig. 14).
- **Time axis:**
Opens a submenu for the scaling of the time axis (see Fig. 15).

Fig. 13 Scale menu

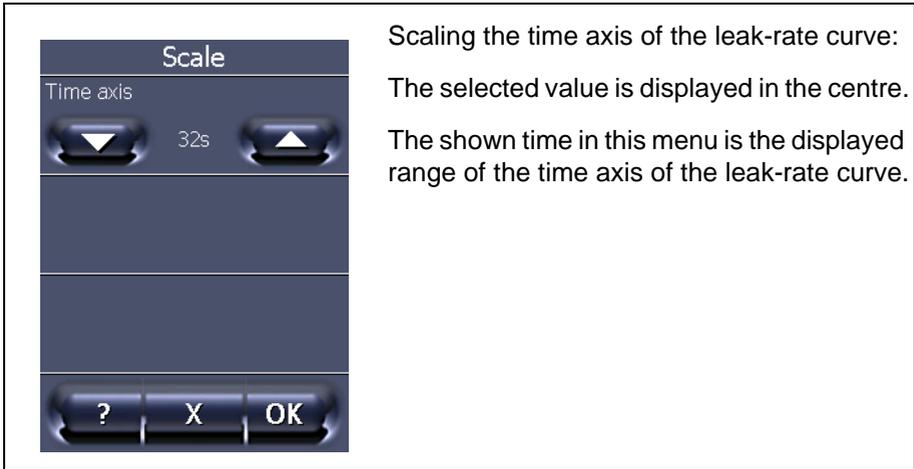


Scaling options of the leak-rate curve and the bargraph:

The selected values are displayed in the centre.

- **Lin / Log:**
Toggle between linear and logarithmic.
- **For logarithmic scaling:**
Select number of decades between 1 and 15 (with the arrow keys).
- **Automatic scaling:**
Can be turned on or off.
- **Confirm the set level with "OK".**

Fig. 14 Scale submenu



Scaling the time axis of the leak-rate curve:
The selected value is displayed in the centre.
The shown time in this menu is the displayed range of the time axis of the leak-rate curve.

Fig. 15 Menu scaling of the time axis

5.3.5 Sound volume

In this menu you can set the volume of the acoustic signals at the leak detector and at the remote control using the "Arrow up" and "Arrow down" buttons.



Warning

Possible risk of hearing damage.
 The hearing may be damaged by the alarm signal.
 If a high volume is set, only briefly expose the hearing to the alarm signal or use ear protection.



Setting the volume:

The volume of the loudspeaker of the remote control and the connected leak detector can be adjusted within 15 volume levels.

Both devices play an example tone at the volume corresponding to the set levels.

- Set the volume of the leak detector and/or the remote control with the arrow keys.
- Level 0: the volume is turned off

The volume of the leak detector is overwritten by the remote control.

Fig. 16 Volume menu

5.3.6 Recorder



The screenshot shows a dark blue menu titled 'Recorder' with four buttons: 'Back', 'Settings', 'Copy', and 'Delete'.

Recording measurements, copying or deleting recorded data

- Select „Settings“ to start, to stop or to configure the recording of measurements.
Opens a submenu (see Fig. 18).
- Select „Copy“ to write recorded data to a plugged-in USB stick.
Opens a submenu (see Fig. 19).
- Select „Delete“ to erase data from the internal memory.
Opens a submenu (see Fig. 20).

Fig. 17 Recorder menu



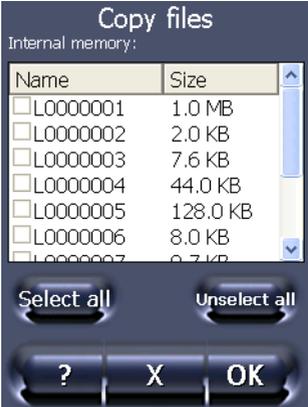
The screenshot shows the 'Recorder' submenu with the following settings: 'Auto record' set to 'On', 'Interval' set to '100ms', and 'Memory location' set to 'internal'. At the bottom are buttons for '?', 'X', and 'OK'.

Preparing and configuring of recording

- Select „Auto record On“ to prepare the recording.
The recording to a new data file will start if the measurement mode will be activated.
If the measurement mode is stopped again the recording quits and the data file is closed.
- Select „Auto record Off“ if no recording should be done.
- „Interval“ is the duration between the storage of two measured values to the data file.
- „Memory location“ selects the storage to the USB stick or the internal memory.

Fig. 18 Recorder submenu settings

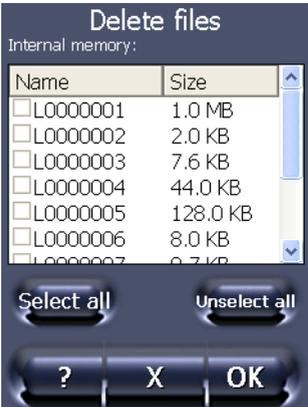
Notice: Set correct values of date and time (see 5.3.8.3) to identify the appropriate data files after recording.



Recorded data files can be copied to a plugged-in USB stick

- Plug-in the USB stick to the RC1000.
- Select the files by clicking on it or use the „Select all“ button.
- Press „OK“ to copy the selected files to the USB stick.
- Apply the shown message with „OK“.
- The USB stick can be unplugged.

Fig. 19 Recorder submenu Copy files



Recorded data files can be deleted from the internal memory.

- Select the files by clicking on it or use the „Select all“ button.
- Press „OK“ to delete the selected files
- Apply the shown message with „OK“ if the selected files should be deleted.
- A message confirms that the files are deleted, apply with „OK“.

Fig. 20 Recorder submenu Delete files

5.3.7 Info: device information



"Info" provides among others information about the power level of the battery, the wireless connection, and gives information on the current version on 5 information pages.

Detailed information:

- Select the desired information with the arrow keys.
- Return to the main menu with "OK".

Fig. 21 Info menu

5.3.8 Miscellaneous

In the "Miscellaneous" menu, you can set the language, make software updates, set the time and the date, and select energy-saving options.

The menu point Service offers expanded functions and test options via an access PIN.



Fig. 22 Miscellaneous menu, submenu Language

5.3.8.1 Language selection:

- By clicking on "Language", the sub-menu is opened for selecting the language.
- The current language is displayed in the centre. Available are: German, English, French, Spanish, Russian and Chinese.
- Select the desired language with the arrow keys and confirm with "OK".

5.3.8.2 Energy-saving options (RC1000WL)



The background illumination can be automatically decreased after a time between 15 s and 10 min. This lowers the energy consumption and the operating time of the battery is extended.

- Set the time period with "Arrow up" and "Arrow down".

The remote control can be turned off if it is not used after an adjustable time between 5 min. and 4 hours.

- Set the time period with "Arrow up" and "Arrow down".
- Confirm the settings with "OK".

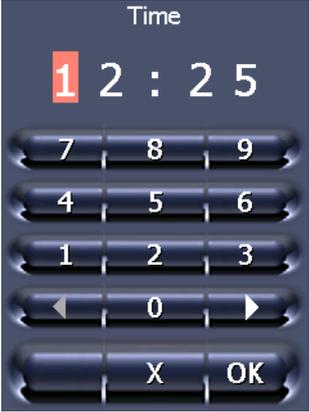
Fig. 23 Menu Enrage

Resetting the decreased background illumination:

By tapping on the touch display, the regular background illumination is turned on again.

Notice: This function works only at battery operated mode (no power supply connected or RC1000WL connected to leak detector via cable) if the leak detector is in STBY or VENT mode. When pushing any key at the RC1000WL the programmed time to switch off the backlight illumination will start again.

5.3.8.3 Set Time and Date



Setting the time:

- The fields can be selected individually with "<" and ">".
- The field selected for change is marked red.
- Make changes via the numeric keypad.
- After changing a digit, the red mark automatically changes to the next field.
- Confirm the set time with "OK".
- The date can be set in the same way.

Fig. 24 Time menu

Notice: The wired remote control RC1000C can not store date and time if the connecting cable is removed or the leak detector is turned off.

5.4 Operating the leak detector

The "START/STOP" and "ZERO" buttons on the remote control can be used to operate the leak detector in the same manner as on the actual leak detector.

Notice: You must observe the operating instructions of the leak detector in any case!

If the remote control displays a menu page of the configuration, you can change to the status display of the leak detector with "Back".

The leak detector can be in the modes „Running up“ or „Stand-By“:



Fig. 25 „Running up“ and „Stand-By“ status displays

START button

Pressing the START button for the first time activates the leak detector so that it starts measuring.

If the START button is pressed again while measuring, the maximum leak rate display (holding function) is activated. This displays the maximum leak rate which has occurred since „START“.

Press „START“ again to re-initialise the holding function.
(See the Operating instructions of the leak test device used.)

After starting up, the leak test device can be in „Evacuating“ or „Measure“ mode:

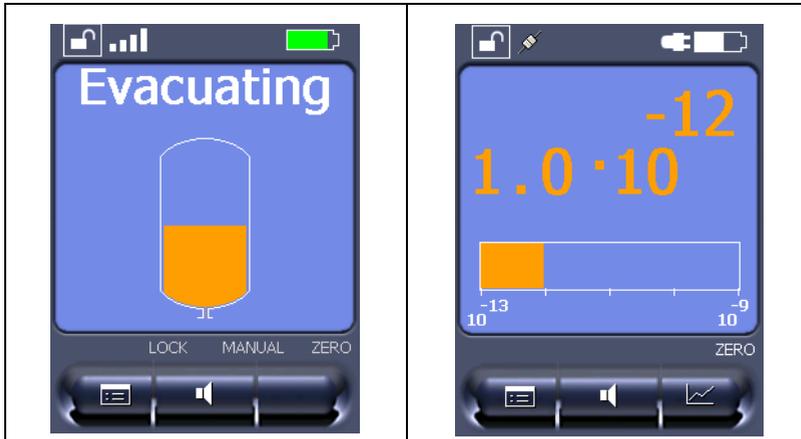


Fig. 26 „Evacuating“ and „Measure“ status displays (numerical and bar graph)



Fig. 27 „Measure“ (curve) and „Vented“ status displays

STOP button

Pressing the STOP button interrupts the measurements. The inlet is vented if the button is pressed and held. (See the Operating Instructions of the leak test device used.)

ZERO button

Pressing the ZERO button activates the background suppression in the leak detector.

(See the operating instructions of the leak detector.)

Notice: The „calibration“ function can only be activated on the leak detector, not with the remote control.



Fig. 28 „Calibration“ status display

5.5 Paging function

With the paging function the remote control RC1000WL can easily be located, if it is searched sometimes.

Open the following menu at the leak detector:

Settings - Miscellaneous - Paging function

Pressing the button „On“ lets an acoustic signal sound at the remote control, the button „Off“ quits this signal.

(Available with leak detector software version V. 4.5 at UL1000/UL5000 and V.1.7 at Modul1000.)

6 Maintenance tasks

6.1 Spare parts

Description	SP No.
Replacement battery RC1000WL, 3.7 V, 5800 mAh	200 003 316
Housing shell set RC1000 including keypad foil and fixture	200 003 315
Wall plug-in power supply RC1000WL	200 003 317

6.2 Maintenance

The RC1000 remote control requires any maintenance. Only the battery of the RC1000WL needs replacing if its storage capacity becomes less.



Warning

Possible short circuit hazard.
The battery might ignite, explode, leak battery fluid, or become overheated and cause burns due to short circuit. Do not short-circuit the battery of the RC1000WL remote control.



Warning

Possible explosion hazard.
Do not set fire to the battery of the RC1000WL remote control.

Notice: Only use batteries approved by INFICON.
Do not use any damaged batteries.

Notice: The battery is a wearing part and subject to a six-month warranty period.

Replacing the battery (RC1000WL)

See „Installation manual rechargeable battery RC1000WL“, document number liqf15e2.

Notice: Dispose of the old battery in accordance with the applicable regulations.

6.3 Cleaning

Notice: Do not use any solvents!
Clean the plastic housing of the device, the front foil and the display using a soft cloth, moistened with some water or soap suds.

7 Transport and disposal

7.1 Transporting



Caution

Possible risk of damage.

The RC1000 remote control may be damaged by improper transport.

Always transport the RC1000 remote control in its original packaging.

7.2 Disposal

Dispose of the device in accordance with the applicable statutory provisions on the disposal of electronic devices, especially also regarding the installed rechargeable battery.

8 Technical Data

8.1 Weight / dimensions

Dimensions (L x W x H)	210 x 90 x 46 mm
Weight RC1000C (non-wireless)	ca. 0,4 kg
Weight RC1000WL (wireless)	ca. 0,5 kg
Type of protection	IP 42

8.2 Characteristics

Audio alarm at 1 m distance	70 db(A) max.
Headphone jack stereo 3.5 mm	>2 x 32 Ohm
Range of wireless transmission	>100 m in free field
HF output power	+6dBm (4mW)
Frequency of wireless transmission	2,4 GHz
Internal memory capacity	64 MB, 32 MB of which is available for recording data
Battery operation time (RC1000WL)	>8 hours (depending on battery level)
Display	TFT-Touch 1/4 VGA / 3,5" 240 x 320 px, max. error 4 px
RC1000WL charging voltage from power supply	24 V DC, max. 0,7 A
RC1000C supply voltage from leak detector	24 V DC, max. 0,7 A

8.3 Environmental Conditions

Only for use within buildings.	EN 61010
Permissible ambient temperature (during operation)	5 to +40 ° C
Permissible storage temperature	-10 to +60 ° C
Maximum relative humidity	80% to 31°C, linear decreasing 50% at 40°C
Max. permissible height above sea level (during operation)	2000 m

8.4 Mains power for wall plug-in power supply

Mains voltages and frequencies	100 - 250 V 50/60 Hz
Interchangeable blades of mains plug	Europe, North America, Japan, UK, China, Australia
Power consumption	max.30 VA

8.5 Wireless permits of RC1000WL

CE, FCC, IC, TELEC, MIC, MII

9 Ordering information

Description	Cat. no.
RC1000C remote control, non-wireless	551-010
RC1000WL remote control, wireless	551-015
Accessories:	
10 m extension cable	14022
Wireless transmitter (to operate a second leak detector)	551-020

10 Declaration of conformity

At the next two pages the declarations of conformity are to be found regarding the wireless remote control RC1000WL and the non-wireless version RC1000C.



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 without our approval, this declaration will be void.

Designation of the product:

Remote control for leak test equipment

Models: **RC1000WL**

Catalogue numbers:

551-015

Cologne, July 20th, 2017



Dr. Döbler, President LDT

The products meet the requirements of the following Directives:

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

Applied harmonized standards:

- **EN 55032:2012**
Class B
- **ETSI EN 300 328 V1.9.1**
- **ETSI EN 301 489-1 V1.9.2**
- **ETSI EN 301 489-17 V2.2.1**
- **DIN EN 50581:2013**

Cologne, July 20th, 2017



Bausch, Research and Development



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 without our approval, this declaration will be void.

Designation of the product:

Remote control for leak test equipment

Models: **RC1000C**

Catalogue numbers:

551-010

The products meet the requirements of the following Directives:

- **Directive 2014/30/EU (Electromagnetic Compatibility)**
- **Directive 2011/65/EU (RoHS)**

Applied harmonized standards:

- **DIN EN 61326-1:2013**
Class B according to EN 55011
- **DIN EN 50581:2013**

Cologne, July 20th, 2017



Dr. Döbler, President LDT

Cologne, July 20th, 2017



Bausch, Research and Development

Index

B

Back of the RC1000 16

C

Cleaning 44

Connecting / disconnecting 29

Connection to the leak detector 18

D

Declaration of conformity 48

Description of the RC1000 13

E

Environmental Conditions 47

I

Info
• device information 36

Inputs and outputs 20

Installation 18

Intended use 7

L

Language selection 37

M

Main menu for configuration 27

O

Operating Elements 14

Operating the leak detector 40

Ordering information 48

P		
	Paging function	42
R		
	Recorder	33
	Recording measurements	34
	Replacing the battery (RC1000WL)	44
	Restrictions of use	8
S		
	Scale	
	• scaling of the leak-rate curve	31
	Set Time and Date	39
	Sound volume	33
	Spare parts	43
	Starting up	24
	Supplied equipment	17
T		
	Technical Data	46
	Touch display	25
	Transport and disposal	45
	Trigger	
	• setting the trigger level	30
U		
	User requirements	7
W		
	Wall plug-in power supply	22
	Warning and danger symbols	5



www.inficon.com reachus@inficon.com

Due to our continuing program of product improvements, specifications are subject to change without notice.
All trademarks are the property of their respective owners.

lina15en1-05-(1806) ©2018 INFICON