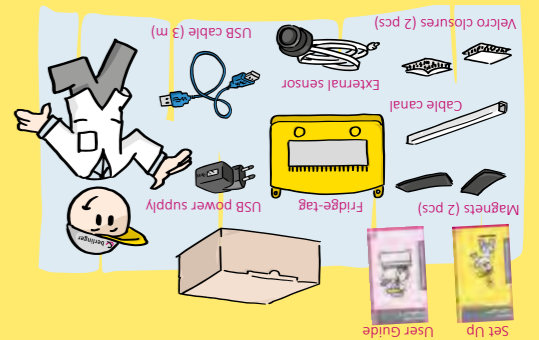


1 State of delivery



You receive the Fridge-tag 3 in sleep mode. The display (LCD) is blank.

2 Packaging content



When the SIM card is included the telephone number of the device will be printed on the label of the device.

Only necessary if the SIM card is not included by factory preset. If included go on with Chapter 5.

3 Inserting the SIM card

3.1 Remove cover with a screwdriver. (Screwdriver is not provided)

3.2 Open metal frame

Slide the metal frame backwards in the direction indicated by the red arrow.

3.3 Lift SIM card insert tray

After opening the metal frame lift SIM card tray upwards.

3.4 Insert SIM card

The diagonal edge of the SIM card must be located on the front right and if the device is placed as shown in the figure.

3.5 SIM card inserted tray with SIM card properly inserted SIM card

3.6 Slide the metal frame into the direction indicated by the red arrow

Press the SIM card insert tray down, hold and slide the metal frame forward to lock the SIM card insert tray.

3.7 SIM card is installed correctly

The SIM card is locked correctly when the SIM card insert tray can no longer be opened.

3.8 Close SIM card cover

At last close the SIM card cover with the screwdriver.

Quick Info - Set Up



Set Up Fridge-tag® 3

9.1 Press SET to save the calendar format.

9.2 Press READ to change the calendar format.

Option 1: Setting the calendar format to: dd.mm.YYYY

Option 2: Setting the calendar format to: mm.dd.YYYY

9 Setting the calendar format

Note: After approx. 60 seconds without to press any button of the Fridge-tag the device goes back into sleep mode. Start from the beginning.

8.2 Please go to chapter 7 and start the configuration again.

If you want to activate the device and the following display "un def" appears, the device is not configured.

9.1 Press SET to save the calendar format.

9.2 Press SET to save the calendar format.

8.1 To activate the device, press the SET and the READ buttons simultaneously for more than 3 seconds. The following calendar format will appear: dd.mm.YYYY.

4 Enter the PIN code

4.1 Only required if the SIM card is locked with a PIN code (secret number). Once the new SIM card is inserted correctly, the following display appears.

Enter the first digit of the PIN code. Digit "4" flashes and is ready for input. The PIN code is always 4 digits long.

4.2 The digits are changed by pressing the READ button. The SET button confirms the input, the flashing display moves to the next digit.

As soon as all 4 digits have been set and match the PIN from the mobile provider, press the SET and READ button simultaneously for 3 seconds to save the password.

7 Device configuration

7.1 Press SET for 3 seconds to start the configuration.

After successful configuration, the display shows the OK symbol and goes in to "sleep mode" again.

7.2 Error 2 and Error 3 appear if an error occurs during configuration. Device has a 1 hour waiting period before you can restart the configuration. Pressing the SET button for 3 seconds restarts the configuration.

8 Activation of the device

7.1 Press SET for 3 seconds to start the configuration.

After successful configuration, the display shows the OK symbol and goes in to "sleep mode" again.

7.2 Error 2 and Error 3 appear if an error occurs during configuration. Device has a 1 hour waiting period before you can restart the configuration. Pressing the SET button for 3 seconds restarts the configuration.

8.1 To activate the device, press the SET and the READ buttons simultaneously for more than 3 seconds. The following calendar format will appear: dd.mm.YYYY.

5 Placing the external sensor

Two hours before activating the device the external sensor must be placed in its predetermined location. It is recommended and important to place the external sensor in the center of the refrigerator for an optimal temperature observation and to avoid any incorrect measurements when starting the device.

6.1 Place the external sensor in the fridge and run flat ribbon cable along the refrigerator.

6.2 Option 1: Put the magnets, or stick the velcro closures on the fridge to place the device directly next to your products.

6.1 Place the external sensor in the fridge and run flat ribbon cable along the refrigerator.

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6 Example installation

6.3 Option 2: Install it on a wall using the integrated suspension device. Position the drill holes. Depending on the substrate, use the correct fixing material (screws not provided).

6.4 USB connection cable. To connect the Fridge-tag with the USB power supply.

6.5 USB power supply

6.6 Mounting suspension on the top of the Fridge-tag

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6.4 USB connection cable. To connect the Fridge-tag with the USB power supply.

6.5 USB power supply

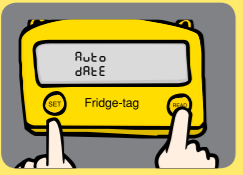
6.6 Mounting suspension on the top of the Fridge-tag

6.1 Place the external sensor in the fridge and run flat ribbon cable along the refrigerator.

6.2 Option 1: Put the magnets, or stick the velcro closures on the fridge to place the device directly next to your products.

10 Setting the date

10.1 If you have ordered the Cloud Version the following display appears. Go on to Chapter 12.

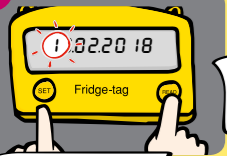


If you use the Standalone Version, after setting the calendar format, the first digit of the date will start flashing. Go on with Chapter 10.2.

The READ button is used to adjust the numbers. Each time you press the READ button, the number in the flashing digit will increase by 1. If you press READ more than necessary, continue pressing the READ button until you obtain the desired number. The SET button is used to save the number. After pressing the SET button, the next digit will start flashing.

Setting the date to 16th of February 2018 (dd.mm.yyyy):


10.2 The 1st digit is flashing:



1) Press READ until "1" appears as the first digit.

2) Press SET to save the digit.

10.3 The 2nd digit is flashing:



1) Press READ until "6" appears as the second digit.

2) Then press SET to save the calendar format.


Go on with the next digits in the same way until the date is set. The 5th and 6th digit are set automatically. After setting the date, the first digit of the time will start flashing.

11 Setting the time

Setting the time to 13:47

Note: The clock operates as a 24 hour clock. (e.g. 1:47 pm = 13:47)

The 1st digit is flashing:



1) Press READ until "1" appears as the first digit.

2) Press SET to save the digit.


Now go on with the next digits in the same way until the time is set to 13:47.

12 Activation completed

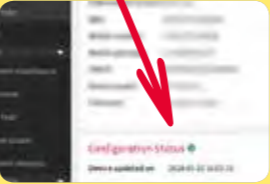
As soon as the last digit of the time setting is confirmed, the activation is completed. Now place the Fridge-tag. If you have a device with external sensor connect the device with the external sensor. During max. 1 minute after activation no temperature is displayed on the screen.

13 Configuration status (Cloud Version)

Please log in to your Data Management Software (Berlinger SmartView, etc.) to check the configuration status.



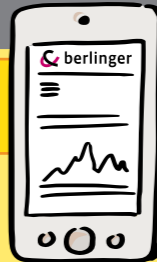
Select the corresponding device and go to "Configuration". If the Configuration was successful the status light will be "green" and the Fridge-tag 3 will send data.



14 SMS status query

Note: The telephone numbers and passwords used in the examples are only for demo purposes.

Status temperature query: Send a SMS with the content "status" to the mobile number of the device.



Conversation with +31 123456789 Thu., 09:26

admin=+41761234567 pswd=1234

SUCCESSFUL

status

Device is in alarm state, the current temperature is 1,5 °C.

STATUS=ALARM, 1.5C

15 Alarm confirmation

Confirmation of alarm status: Reading out the alarm on the device generates a confirmation information.

Conversation with +31 123456789 Thu., 09:26

STATUS=ALARM CONFIRMED, 21.3C

The alarm has been confirmed, the SMS from the device is: STATUS=ALARM CONFIRMED, 21.3C. The actual temperature is 21.3 °C.

Chapter 14 and 15 are valid functions for the "Cloud Version" and the "Standalone Version".

16 SMS functions (Standalone Version)

16.1 Set admin rights: The actual administrator sends a SMS with the content "admin=+41761234567 (mobile number of new administrator) followed by a space and pswd=1234" (your assigned password) to the device.

The change of the admin state, will be confirmed with a SMS by the device with the content "SUCCESSFUL".

Conversation with +31 123456789 Thu., 09:26

admin=+41761234567 pswd=1234

SUCCESSFUL

16.2 Error: Wrong password.

Conversation with +31 123456789 Thu., 09:26

admin=+41761234567 pswd=1234

MSG ERROR=PROHIBITED,PSWD

The device returns a SMS with the content "MSG ERROR=PROHIBITED, PSWD".

16.3 Changing alarm limits: Commands for setting alarm limits.


SMS commands	Status (on/off)	°C (00.0)	Minutes
aulimit=on,25.0,60	upper alarm limit "on"	temperature limit "25.0"	time alarm "60"
allimit=on,15.0,60	lower alarm limit "on"	temperature limit "15.0"	time alarm "60"
wulimit=off,0.0,0	upper warning limit "off"	temperature limit "0.0"	time alarm "0"
wllimit=off,0.0,0	lower warning limit "off"	temperature limit "0.0"	time alarm "0"

Note: Time and date adjustments have no effect on the alarm records. Adjustments can only be made for date and time settings and for changing the temperature measurement unit. Once the device is activated, it cannot be stopped. The number of time adjustments during the same day is unlimited. After an adjustment has been made, the Fridge-tag will be locked for 24 hours from the following midnight (e.g. changes on 15 September, device locked from 00:01 am on the 16 September until 00:01 am on the 17 September). This is for security reasons.

Then repeat the steps as described in chapter "Setting the date and time".


Option 2: change the temperature unit °C/°F

18.3



1) Press READ until "CELS FAHR" is displayed on the screen...

2) ...then press SET to access the menu "CELS FAHR".



1) Press READ until the desired unit "°C" or "°F" appears on the display.


2) Press SET to save the temperature unit.

The temperature unit is now changed and the measuring will continue.

18 Correct/change settings

If you made a mistake or wish to change the settings of the calendar format, the date and the time (Standalone Version only), or the temperature measurement unit please proceed as follows:

18.1



1) Press and continue to hold SET...

2) ...then press READ shortly...


3) ... then release both buttons.

The screen will display "OUTSIDE" (external sensor) indicating that you have entered the change mode and you may choose the item to be changed:

Note: If you scroll through the menu and you reach the display of the measuring mode, you need to restart from the beginning by accessing the menu. In order to adjust more than one setting (e.g. time and Celsius to Fahrenheit) you must complete each change and return to menu mode for the 2nd change.

Option 1: change the date or time settings

18.2



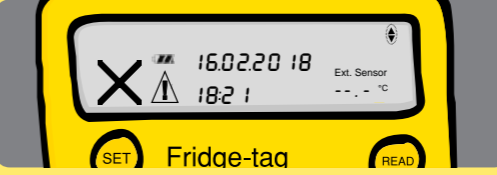
1) Press READ until "SET DATE" is displayed on the screen ...

2) ... then press SET to access the menu "SET DATE".

17 Connection error

After 10 minutes (factory standard) without a connection between the device and the external sensor the following display appears and:

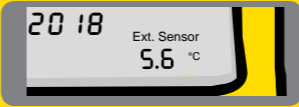
- the buzzer will beep twice at intervals of three minutes for a maximum of 168 hours (7 days).
- the whole display starts blinking.
- any confirmation will stop the display from blinking.
- the buzzer only stops if the connection error is corrected. If the error still exists, the buzzer continuously beeps at a three-minute interval for 168 hours (7 days).



Please check the following two points:

- If the external sensor is properly connected with the device?
- Does the external sensor cable have any defects?

Note: As soon as the error(s) have been cleared, the measuring will continue and the connection error buzzer stops automatically. During max. 1 minute after the connection no temperature is displayed on the screen.



During a connection error no data will be recorded.

16.4 Change the alarm limit: Send a SMS with the content "aulimit=on,25.0,60" to the mobile number of the device.

Conversation with +31 123456789 Thu., 09:26

aulimit=on,25.0,60

SUCCESSFUL

Successful changes of the alarm limits are acknowledged as "SUCCESSFUL" by the Fridge-tag.

16.5 Adding alarm recipients: A total of 5 different alarm recipients can be assigned.

Conversation with +31 123456789 Thu., 09:26

subscribe=+41761234567

SUCCESSFUL

Admin sends an SMS with the command "subscribe=mobile number" (of a new recipient) to the device. The device confirms with "SUCCESSFUL".

16.6 Delete alarm recipients: command "unsubscribe" removes recipient from getting status alerts.

Conversation with +31 123456789 Thu., 09:26

unsubscribe=+41761234567

SUCCESSFUL

Admin sends a SMS with the command "unsubscribe=mobile number" (of the removing recipient) to the device. The device confirms with "SUCCESSFUL".



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For more information download the whole user manual from www.berlinger.com/user-manuals.



Berlinger & Co. AG
Mitteldorfstrasse 2
9608 Ganterschwil
Switzerland

Tel. +41 71 982 88 11
www.berlinger.com

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