

# USER MANUAL

Q-tag CLm doc

Q-tag CLm doc L

Q-tag CLm doc LR

Q-tag CLm doc D

Q-tag CLm doc Ice

Q-tag CLm doc Ice R



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# **User Manual Q-tag CLm doc devices**

2 — Last update: Aug 13, 2021

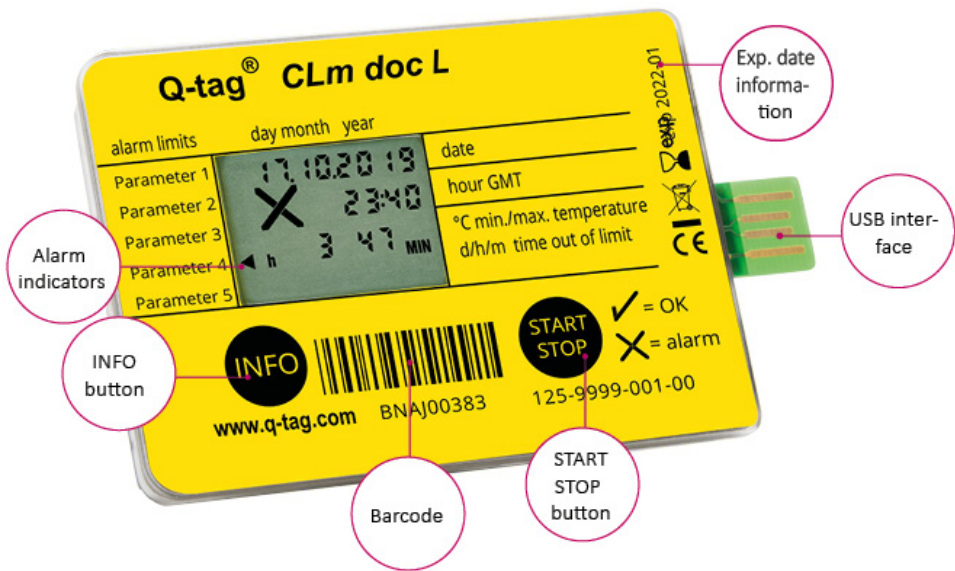
Berlinger & Co. AG

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# 1. Introduction

## Q-tag CLm doc family



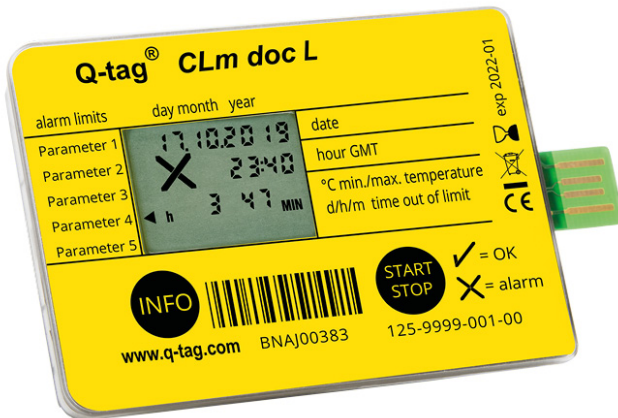
The Q-tag CLm doc family monitors reliably and precisely preset temperature profiles. It indicates the current date and time and provides a visual indication of ALARMS on the display. Details about ALARM events may be obtained upon pressing the INFO-button and/or via a downloaded report achieved through the USB connection with a computer.

	<b>Data control with Berlinger Verifier</b> The data of each CLm doc device can be verified with Berlinger Verifier.
	<b>Data management with Berlinger SmartView</b> Thanks to Berlinger SmartView, the collected temperature data from Q-tag CLm doc devices can be analyzed easily and indepth for significant workflow improvements!

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# 1.1. Product Overview



## Q-tag CLm doc L

### The durable one

To monitor your transport and storage  
single-use data logger with 38,000 log points

[Technical information](#)

[Device information](#)



## Q-tag CLm doc D

### The cool one

To monitor your dry ice packages  
single-use data logger with 38,000 log points

[Technical information](#)

## Device information



## Q-tag CLm doc LR

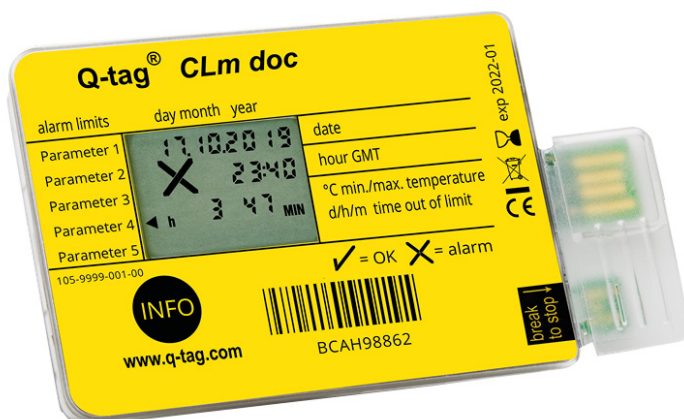
### The profitable one

To monitor your transport

reusable data logger with 38,000 log points

## Technical information

## Device information



## Q-tag CLm doc

### The clever one

To monitor your passive cold transport

single-use data logger

## Technical information

## Device information



## Q-tag CLm Ice

### The frosty one

To monitor your frozen packages  
single-use data logger with 38,000 log points

[Technical information](#)

[Device information](#)



## Q-tag CLm Ice R

### The restartable chilly one

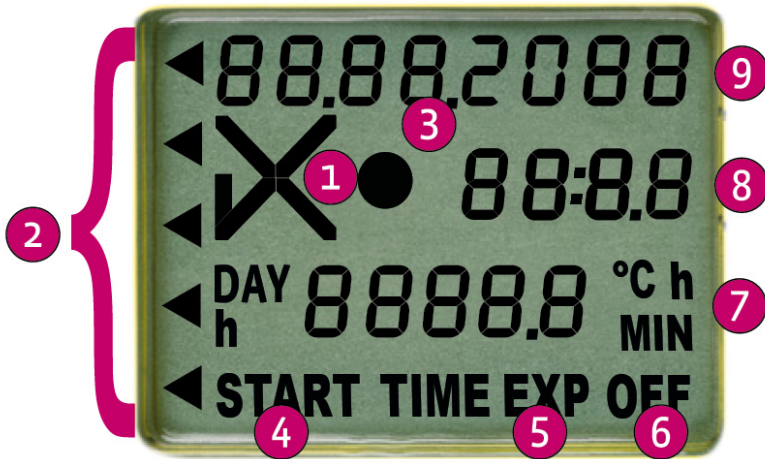
To monitor your frozen packages  
reusable data logger with 38,000 log points

[Technical information](#)

[Device information](#)

## 1.2. Display explanations

The Q-tag CLm doc family monitors reliably and precisely preset temperature profiles. It indicates the current date and time and provides a visual indication of ALARMS on the display. Details about ALARM events may be obtained upon pressing the INFO-button and/or via a downloaded report achieved through the USB connection with a computer.

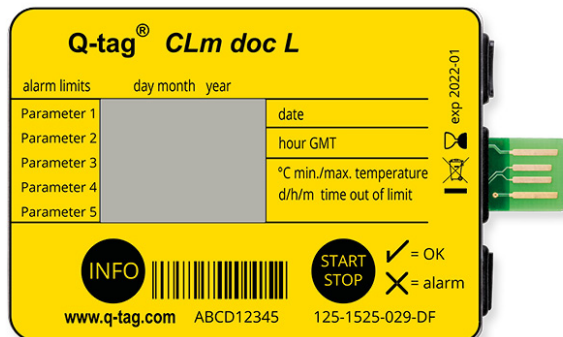


1. OK (✓) or ALARM (✗) indicator
2. Individual ALARM indicators ◀
3. Operating indicator (running indicator) ●
4. START indicator (device started)
5. TIME EXP: time expired indicator (allowed recording time exceeded, optional)  
EXP OFF: device expired
6. OFF indicator (device stopped)
7. Duration display (DAY/h or h/MIN) and temperature display
8. Time display (duration and temperature display in sleep mode)
9. Date display (details of ALARM settings in sleep mode)



## 1.3. State of delivery / sleep mode


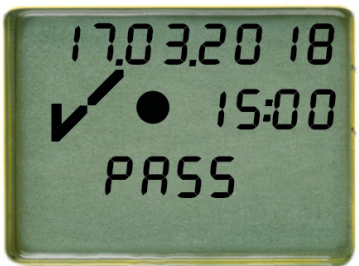
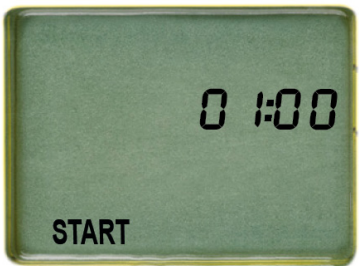
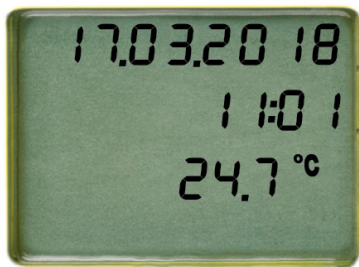
Q-tag CLm doc devices will be shipped in the “sleep mode”.

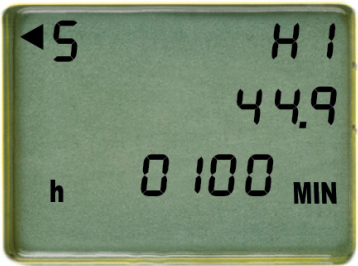
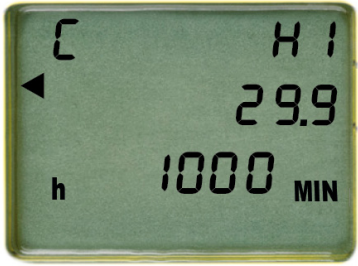
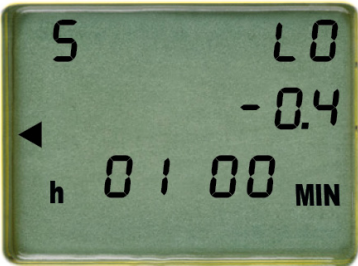
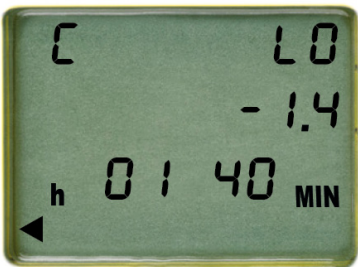
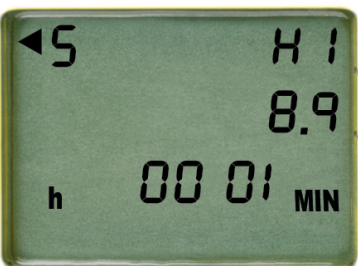


In this mode the display is blank. This is the state of delivery of the device. The device is not activated, and no data is recorded.

## 1.4. Gathering information prior to device activation (in sleep mode)

Diverse information can be read out after the INFO button has been pressed 3 times in one second. After 1 minute the device goes back into sleep mode; the display is blank again. (The date format is dd/mm/yyyy.)

1st display:		all segments activated
2nd display:		date and time of production test results
3rd display:		start delay time
4th display:		current date, time and ambient temperature

5th display:		<p>temperature, time limits and ALARM type</p> <p>S: single event HI: high limit Time: h 01 00 MIN Explanation: Alarm occurs if the limit of 44.9°C is exceeded for 1 hour continuously.</p>
6th display: *		<p>temperature, time limits and ALARM type</p> <p>C: cumulative event HI: high limit Time: h 10 00 MIN Explanation: Alarm occurs if the limit of 29.9°C is exceeded 10 hours in total (sum of Hi Range violation).</p>
7th display: *		<p>temperature, time limits and ALARM type</p> <p>S: single event LO: low limit -0.4°C Time: h 01 00 MIN Explanation: Alarm occurs if the limit of -0.4°C is undercut by 1 hour continuously.</p>
8th display: *		<p>temperature, time limits and ALARM type</p> <p>C: cumulative event LO: low limit -0.4°C Time: h 01 40 MIN Explanation: Alarm occurs if the limit of -1.4°C is undercut by 1 h 40 min. (sum of LO range violation).</p>
9th display: *		<p>temperature, time limits and ALARM type</p> <p>S: single event HI: high limit Time: h 00 01 MIN Explanation: Alarm occurs if the limit of 8.9°C exceeds 1 minute continuously.</p>

<b>10th display:</b>		time expiry (max. running time in days) Explanation: TIME EXP appears on the display after 20 days of operation.
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\*(only indicated if factory-preset, otherwise skipped)

## 2. Start it

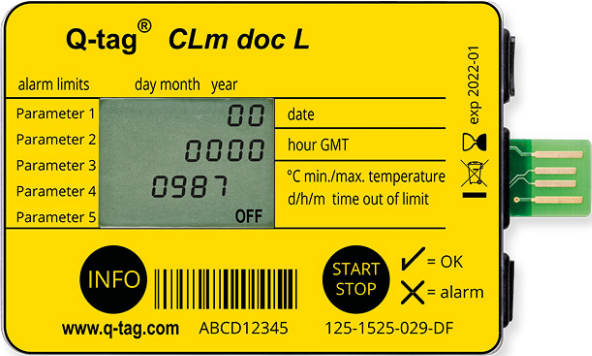
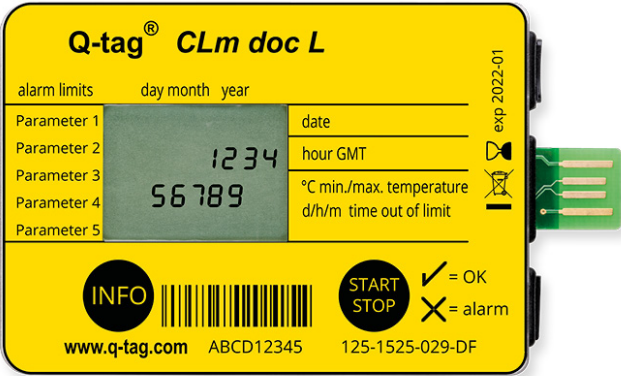
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- [Activation of a Q-tag CLm doc family device](#)

# 2.1. Reading out CID / serial number

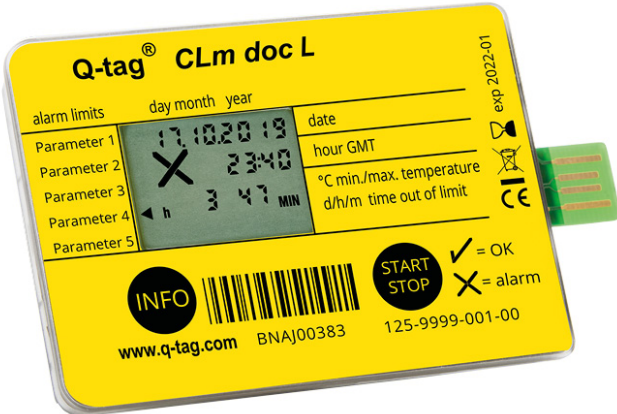
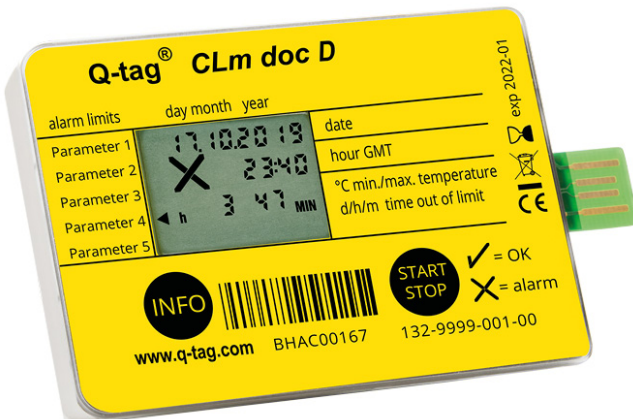
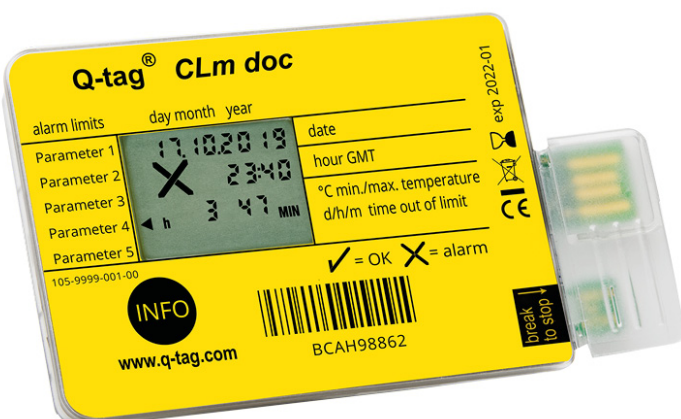
Before activation press and hold the INFO button until the display starts up. The CID number (configuration ID) is shown for 10 seconds, after that the serial number is displayed for 10 seconds. Then the display goes back into sleep mode.

 <p>The image shows a yellow Q-tag CLm doc L device. The display shows '0987' for Parameter 4, which is the CID. Other parameters shown are 00 for Parameter 1, 0000 for Parameter 2, and OFF for Parameter 5. The device has an 'INFO' button, a barcode, and a 'START STOP' button. The text 'www.q-tag.com ABCD12345 125-1525-029-DF' is visible at the bottom.</p>	CID (Configuration Identification Number)
 <p>The image shows the same yellow Q-tag CLm doc L device. The display now shows '56789' for Parameter 4, which is the serial number. Other parameters shown are 1234 for Parameter 2 and 56789 for Parameter 4. The device has an 'INFO' button, a barcode, and a 'START STOP' button. The text 'www.q-tag.com ABCD12345 125-1525-029-DF' is visible at the bottom.</p>	Serial number

After activation (start logging) both numbers cannot be read out through the device anymore. After stopping, the CID and serial number can be read out through the PDF file with a computer.

## 2.2. Activation of a Q-tag CLm doc family device

Q-tag CLm doc devices can be started as follows:

<b>Q-tag CLm doc L</b>	<p>To initiate a shipment, press and hold the START/ STOP button until the display starts up. Active recording is shown by the ✓ (OK symbol) or ✗ (ALARM symbol) and the flashing dot on the LCD.</p>	 <p>The image shows a yellow Q-tag CLm doc L device. The LCD screen displays '17.10.2019' and '23:40'. Parameter 2 shows an alarm symbol (✗). The device has a 'START STOP' button and a 'break to stop' tab. The bottom of the device shows 'www.q-tag.com', 'BNAJ00383', and '125-9999-001-00'.</p>
<b>Q-tag CLm doc D &amp; CLm doc Ice</b>	<p>To initiate a shipment, press and hold the START/ STOP button until the display starts up. Active recording is shown by the ✓ (OK symbol) or ✗ (ALARM symbol) and the flashing dot on the LCD.</p>	 <p>The image shows a yellow Q-tag CLm doc D device. The LCD screen displays '17.10.2019' and '23:40'. Parameter 2 shows an alarm symbol (✗). The device has a 'START STOP' button and a 'break to stop' tab. The bottom of the device shows 'www.q-tag.com', 'BHAC00167', and '132-9999-001-00'.</p>
<b>Q-tag CLm doc</b>	<p>To initiate a shipment, break the respective tab. Active recording is shown by the ✓ (OK symbol) or ✗ (ALARM symbol) and the flashing dot on the LCD.</p>	 <p>The image shows a yellow Q-tag CLm doc device. The LCD screen displays '17.10.2019' and '23:40'. Parameter 2 shows an alarm symbol (✗). The device has a 'START STOP' button and a 'break to stop' tab. The bottom of the device shows 'www.q-tag.com', 'BCAH98862', and '105-9999-001-00'.</p>



## Q-tag CLm doc LR & CLm doc Ice R

Option 1: To initiate a shipment, press and hold the START/STOP button until the display starts up.

Option 2: After reactivation with the software easy go and disconnecting the device from the USB interface

Option 3: After preconfigured autostart date and time

**Important:** Before reactivation of a Q-tag CLm doc LR or Q-tag CLm doc Ice R device you must connect the device to a USB port, please read out the recorded data, otherwise the recorded data will be lost!

Active recording is shown by the ✓ (OK symbol) or ✗ (ALARM symbol) and the flashing dot on the LCD.



**Expiry date:** Please always verify the expiry date prior to using any device.

Expiry date explanation: Example exp 2020-01: In this example the expiry date of the device is January 2020 or 365 days after first use.

## Q-tag easy go software



### Reconfiguration and backup

The Q-tag easy go software is used to activate and reconfigure Q-tag CLm doc LR and Q-tag CLm doc Ice R devices as well as to safeguard the collected data.

Contact us to get the software: [info@berlinger.com](mailto:info@berlinger.com)

More information: [www.berlinger.com/easygo](http://www.berlinger.com/easygo)



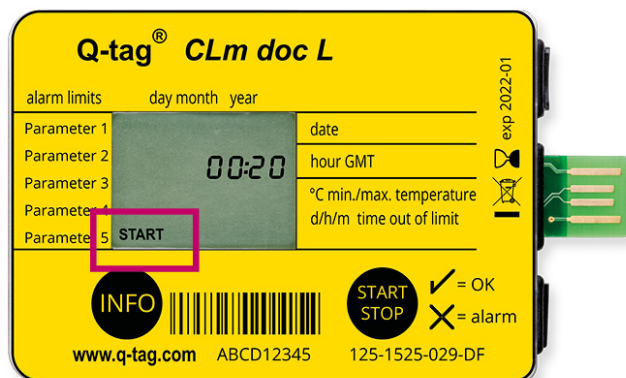
# 3. Send it

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- [Start delay](#)
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- [Temperature recording / Placing the device](#)
- [Add a marker](#)
- [Display indication during temperature recording](#)

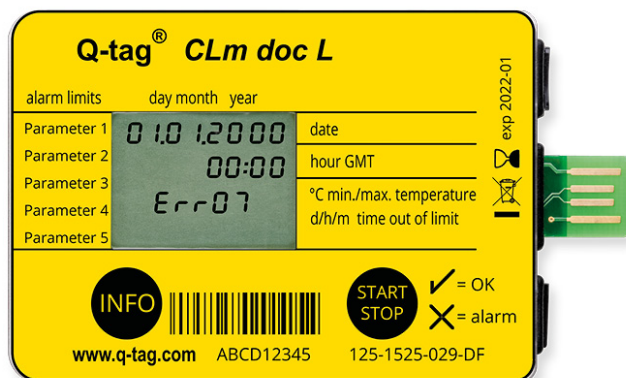
## 3.1. Start delay (optional)



If a start delay has been preset, the device starts recording the temperature after the completion of the start delay time. The start delay time is displayed by the flashing START and the remaining time of the countdown.

Stopping the device during the start period is not possible.

## 3.2. Error messages



An error message can only occur before or during the device activation. If an error message like in the example occurs, do not use the device in any case!

(Possible error notifications: Err01-Err17)

Please contact the Berlinger support team immediately.

E-mail: [support@berlinger.com](mailto:support@berlinger.com)

For any other purposes please contact our sales team.

E-mail: [info@berlinger.com](mailto:info@berlinger.com), phone: +41 71 982 88 11

## 3.3. Temperature recording / Placing the device

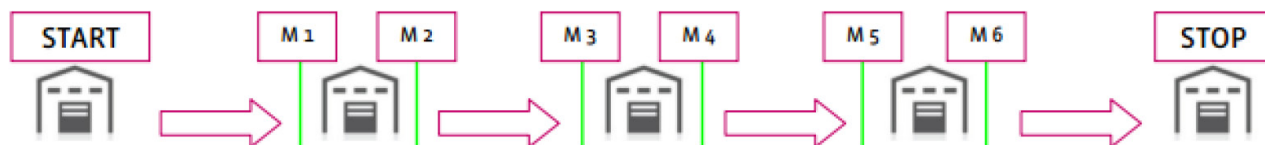
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The activated monitor must be placed immediately in its predetermined location. As described in the SOP, or otherwise it is recommended to place the device as close to the supervised goods as possible. This is an important prerequisite to ensure the temperatures observed by the device are as close to the product temperature as possible.

**Important:** It is recommended to “precondition” the device to the desired mean temperature for about 30 minutes before use, especially if no start delay time has been programmed. This is to ensure against false readings during start-up.

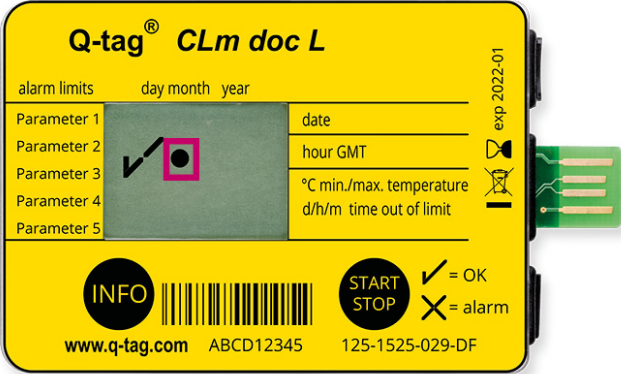
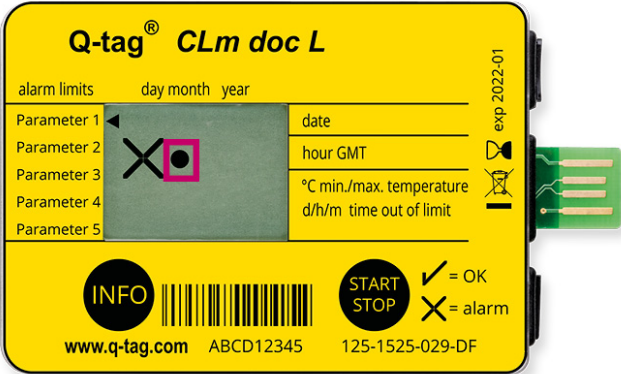
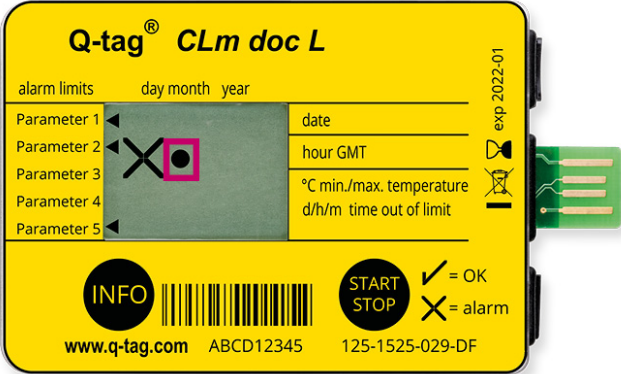
## 3.4. Add a marker

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In order to mark a special event like a start of a destination “A” or an arrival of a destination “B” with a time stamp (M1, M2, etc.) on the PDF, press the INFO button 3 times in a row. When setting the first marker “1” will be shown at the display for 3 seconds, after that the information disappears. For the next marker “2” is shown on the screen and so on and so forth. Up to 255 markers can be set per run.

### 3.5. Display indication during temperature recording

<p>A ✓ (OK symbol) is indicated during normal operation as long as no ALARM have been recorded.</p>	 <p>The image shows a yellow Q-tag CLm doc L device. The display area is divided into sections. At the top, it says 'Q-tag® CLm doc L'. Below that, there are fields for 'alarm limits', 'day month year', and 'exp 2022-01'. The main display area is split into two columns. The left column lists 'Parameter 1' through 'Parameter 5'. The right column shows 'date', 'hour GMT', '°C min./max. temperature', and 'd/h/m time out of limit'. A large checkmark is displayed in the center of the main display area. At the bottom, there is an 'INFO' button, a barcode, and the text 'www.q-tag.com ABCD12345 125-1525-029-DF'. A legend on the right indicates '✓ = OK' and 'X = alarm'.</p>
<p>This ✓ (OK symbol) will be replaced by a X (ALARM symbol) as soon as any ALARM has been triggered. (1 violation)</p>	 <p>The image shows the same Q-tag CLm doc L device. The display area is the same as in the first image, but the large checkmark has been replaced by a large 'X' symbol, indicating an alarm state. The rest of the display and the legend remain the same.</p>
<p>Additional arrows are shown in the left display area to indicate which limit has been violated. The operating indicator is flashing. (3 violations)</p>	 <p>The image shows the same Q-tag CLm doc L device. The display area is the same as in the previous images, but now there are three arrows pointing to the left of the 'Parameter 1', 'Parameter 2', and 'Parameter 3' labels, indicating which limits have been violated. The large 'X' symbol is still present, and the legend indicates '✓ = OK' and 'X = alarm'.</p>

## 4. Stop it

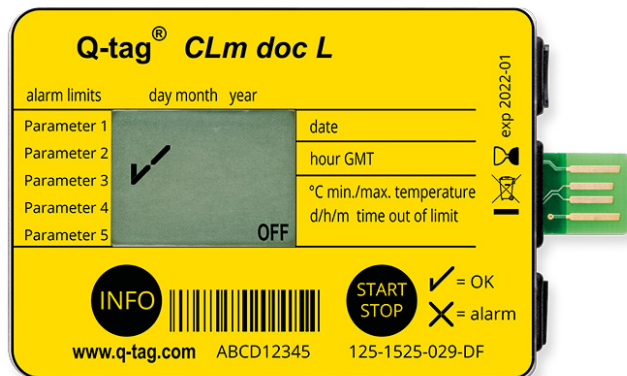
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- [Reading the display after the device has been stopped](#)
- [Gathering information after activation of the device or in STOP mode](#)

## 4.1. End of temperature recording / STOP mode

The device may be stopped if the recording shall be finished, e.g. if a shipment has reached its final destination. To do so press and hold the START/STOP button until OFF appears on the bottom right corner of the display. The dot will disappear.



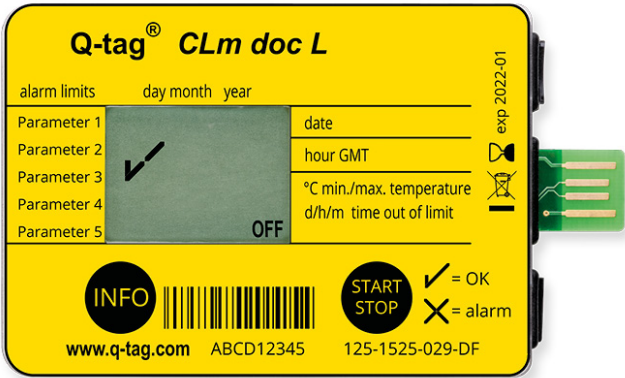
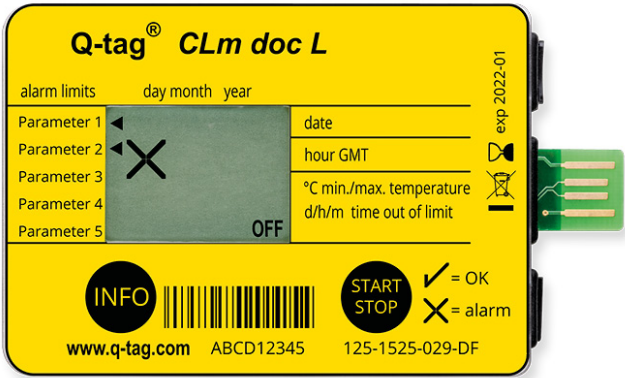
For the **Q-tag CLm doc** only the plastic USB cover has to be pushed down and up in order to break off the STOP tab. The display indicates "OFF" and the flashing dot disappears.



**Important:** All other indicators such as ✓ (OK symbol) or X (ALARM symbol) and individual ALARM arrows remain stable for at least 3 months after recoding has been stopped.



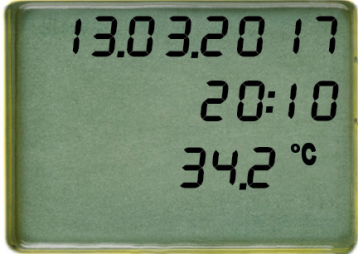
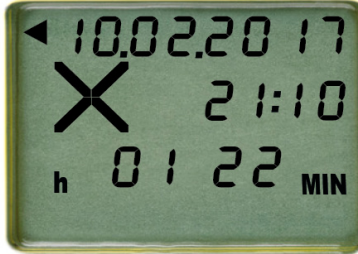


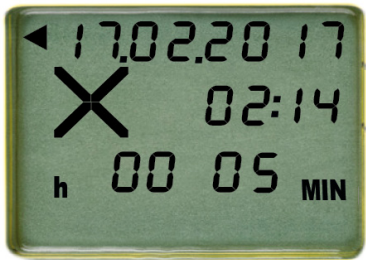
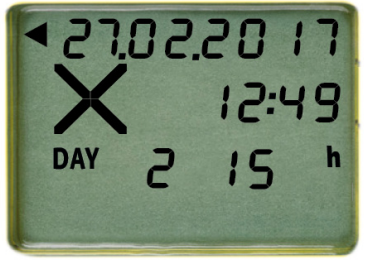
## 4.2. Reading the display after the device has been stopped

<p><b>OK display</b></p> <p>The monitored goods have not been exposed to temperature and time conditions outside the preset ALARM parameters.</p>	 <p>The image shows a yellow Q-tag CLm doc L device. The display is divided into several sections. At the top, it says 'Q-tag® CLm doc L'. Below that, there are fields for 'alarm limits', 'day month year', and 'date'. The main display area shows a large green checkmark, indicating that the monitored goods have not been exposed to conditions outside the preset alarm parameters. To the right of the checkmark, there are labels for 'Parameter 1' through 'Parameter 5', 'hour GMT', '°C min./max. temperature', and 'd/h/m time out of limit'. At the bottom, there is an 'INFO' button, a barcode, and the text 'www.q-tag.com ABCD12345 125-1525-029-DF'. On the right side, there is a 'START STOP' button and a legend: '✓ = OK' and '✗ = alarm'. The device has a green connector on the right side.</p>
<p><b>ALARM display</b></p> <p>The monitored goods have been exposed to temperature and time conditions outside the preset ALARM parameters.</p> <p><b>Important:</b> The ALARM indication cannot be cancelled nor reset.</p>	 <p>The image shows a yellow Q-tag CLm doc L device. The display is divided into several sections. At the top, it says 'Q-tag® CLm doc L'. Below that, there are fields for 'alarm limits', 'day month year', and 'date'. The main display area shows a large red 'X', indicating that the monitored goods have been exposed to conditions outside the preset alarm parameters. To the right of the 'X', there are labels for 'Parameter 1' through 'Parameter 5', 'hour GMT', '°C min./max. temperature', and 'd/h/m time out of limit'. At the bottom, there is an 'INFO' button, a barcode, and the text 'www.q-tag.com ABCD12345 125-1525-029-DF'. On the right side, there is a 'START STOP' button and a legend: '✓ = OK' and '✗ = alarm'. The device has a green connector on the right side.</p>

## 4.3. Gathering information after activation of the device or in STOP mode


The information indicated on the LCD screen upon successive pressing of the INFO button after activation or in STOP mode is explained below. (The date format is dd/mm/yyyy.)

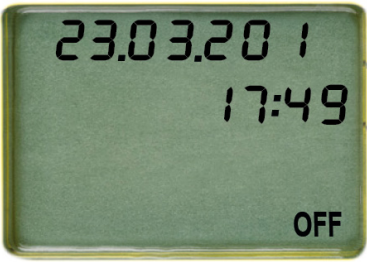
1.	Current date, time and ambient temperature	
2.	Temperature minimum with date and time of occurrence	
3.	Temperature maximum with date and time of occurrence	
4.*	Date, time and duration of 1st ALARM type	

5.**	Date, time and duration of 2nd occurrence of 1st ALARM (max. 3 single events)	
6.**	Date, time and duration of 3rd occurrence of 1st ALARM (max. 3 single events)	

The information will be the same as from point 4. to 6. referring to your individual alarm settings.

7.*	Date, time and duration of 2nd ALARM
8.**	Date, time and duration of 2nd occurrence of 2nd ALARM (max. 3 single events)
9.**	Date, time and duration of 3rd occurrence of 2nd ALARM (max. 3 single events)
10.*	Date, time and duration of 3rd ALARM
11.**	Date, time and duration of 2nd occurrence of 3rd ALARM (max. 3 single events)
12.**	Date, time and duration of 3rd occurrence of 3rd ALARM (max. 3 single events)
13.*	Date, time and duration of 4th ALARM
14.**	Date, time and duration of 2nd occurrence of 4th ALARM (max. 3 single events)
15.**	Date, time and duration of 3rd occurrence of 4th ALARM (max. 3 single events)
16.*	Date, time and duration of 5th ALARM
17.**	Date, time and duration of 2nd occurrence of 5th ALARM (max. 3 single events)
18.**	Date, time and duration of 3rd occurrence of 5th ALARM (max. 3 single events)

19.	Transport time	
20.	Start date and time (device activation)	

21.	Off date and time (device activation)	
-----	---------------------------------------	--

\*(only indicated if ALARM limit preset and range violations occurred, otherwise skipped)

\*\* (only indicated if ALARM limit preset as single-event type and range violations occurred, otherwise skipped)

# 5. Read out

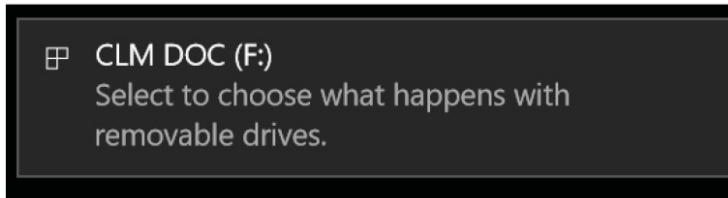
---

## Table of Contents

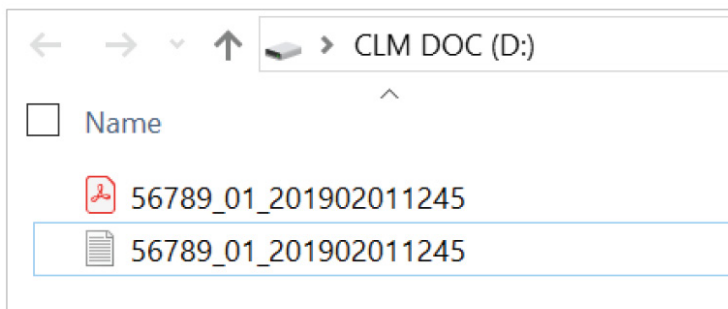
- [Connecting the device with a computer](#)
- [Remove device from USB port](#)

## 5.1. Connecting the device with a computer

Plug in the device into any computer via USB interface. Make sure the device is plugged in properly. The following window will appear.



Wait sufficient time for the device to generate the ASCII and PDF files (approx. 10 seconds). Double-click the Q-tag CLm doc device (like any external file/drive). Save the PDF and text file on your computer and open the PDF file to see a summary of data and graph or open the text file to view individual temperature recordings (raw data).



**Note:** For this process no additional software is necessary.

## 5.1.1. PDF file – sample of a PDF file generated by a Q-tag CLm doc L

### Page 1: Information overview

#### Read-Out document of the Q-tag CLm doc L

##### Q-tag® CLm doc L

Identification Number: 56789\_01\_201902181329

Configuration id number (CID) 0987  
 Start delay 30 min  
 Alarm status **Alarm**  
 Total number of measurements 1842  
 Logging Interval 8 min

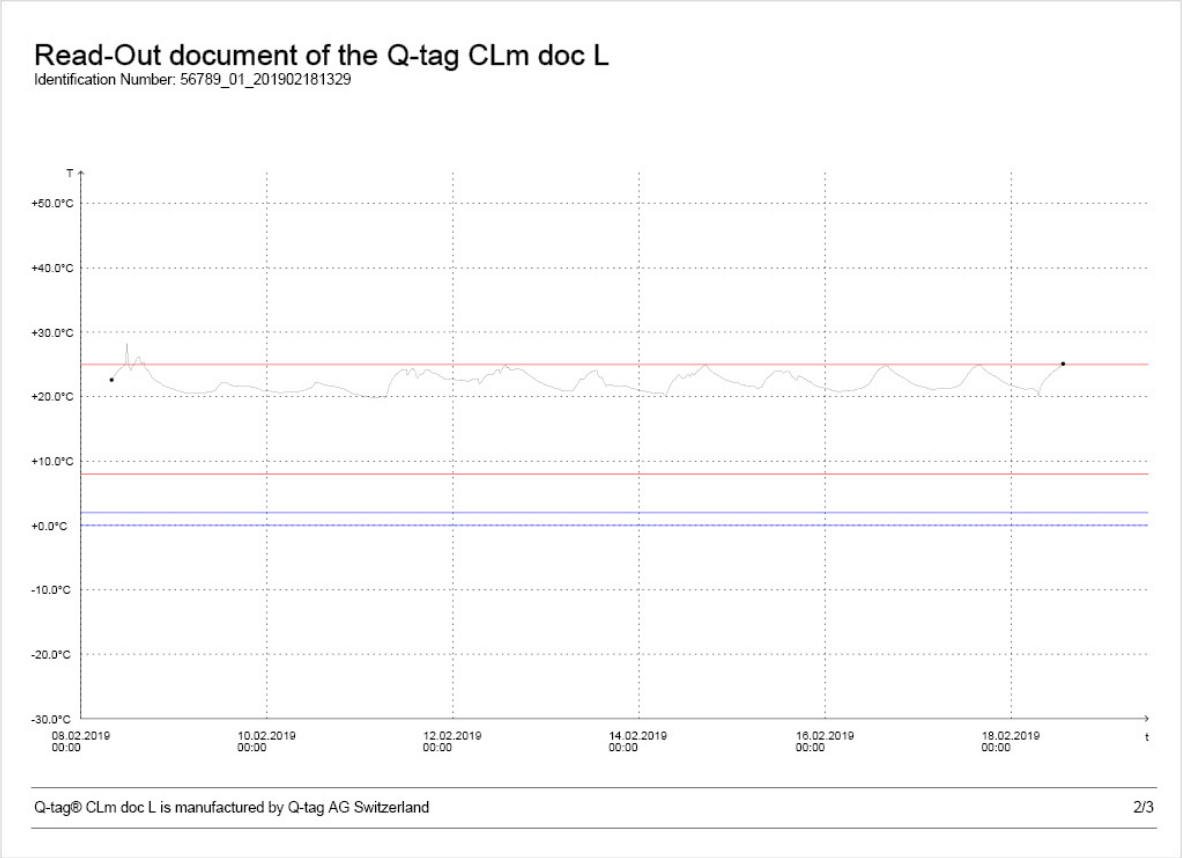
Alarm	Configuration	Status	Date (dd.MM.yyyy)	Time (GMT)	Duration
1: Single Event	above 25.0°C for 1min	ALARM	08.02.2019	11:32	47min
		ALARM	08.02.2019	13:41	2h 40min
		ALARM	18.02.2019	13:14	16min
2: Accumulated	above 8.0°C for 1h	ALARM	08.02.2019	08:55	10d 5h 34min
4: Accumulated	below 2.0°C for 1h	OK			
5: Single Event	below 0.0°C for 1min	OK			

Log Result	Temperature	Date (dd.MM.yyyy)	Time (GMT)
Start date and time		08.02.2019	07:55
Stop date and time		18.02.2019	13:29
Highest temperature	+28.3°C	08.02.2019	11:55
Lowest temperature	+19.8°C	11.02.2019	03:39
MKT	+22.3°C		
Average temperature	+22.2°C		

Q-tag® CLm doc L is manufactured by Q-tag AG Switzerland

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### Page 2: Temperature graph



Page 3: Marker information

Read-Out document of the Q-tag CLm doc L

Q-tag® CLm doc L

Identification Number: 56789\_01\_201902181329

Marker	Temperature	Date (dd.MM.yyyy)	Time (GMT)	Time difference to last Marker
M1	+24°C	11.02.2019	06:42	...
M2	+24.4°C	11.02.2019	07:58	1h 16 min

Q-tag® CLm doc L is manufactured by Q-tag AG Switzerland

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## 5.1.2. Sample of an ASCII file generated by a Q-tag CLm doc L

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### Sample of an ASCII file

```
56789_01_201902181329 - Editor
Datei Bearbeiten Format Ansicht ?
Device: Q-tag CLm doc L
Vers: 1.9
Fw Vers: 4.7.04o
Device ID: 80
Sensor: 1
Conf:
  Serial: 56789
  PCB: 81618290001742
  CTD: 0007
```

### Data control with Berlinger Verifier



The data of each Q-tag CLm doc device can be verified with Berlinger Verifier.

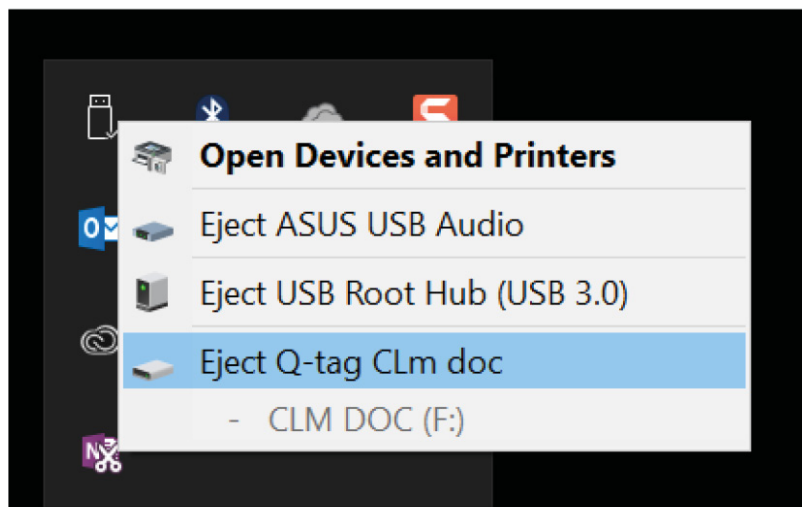
Contact us to get the software: [info@berlinger.com](mailto:info@berlinger.com)

More information: [www.berlinger.com/verifier](http://www.berlinger.com/verifier)



## 5.2. Remove device from USB port

For a proper USB port disconnection of the device, please always use the “safely remove hardware” function on your PC/Mac.



Do not disconnect the device before you receive the following message:

Hardware can be removed now. The device “CLM DOC (D:) can be removed from the computer now.”



## 6. Important Information

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### Liability

The manufacturer shall not be held liable:

- if the device was used beyond the manufacturer's given limitations.
- for any claims due to the improper storage and use of the device.
- for any problems with the temperature controlling and/or cooling unit.
- for the bad quality of any monitored goods.
- for incorrect readings if the device was used beyond its expiry date.

### Battery

The devices of the Q-tag CLm doc family contain a lithium battery. Please pay strict attention to the following points:

- The housing of a Q-tag CLm doc family device must never be opened nor destroyed.
- Do never expose a device of the Q-tag CLm doc family to temperatures above the allowed range (fire, oven, microwaves, etc.). It may cause injuries.
- Always keep a device from the Q-tag CLm doc family out of the reach of children.
- The battery complies with IATA DGR Packaging Instruction 970 Section II and is therefore not considered as dangerous good.
- Dispose or recycle the device from the Q-tag CLm doc family in accordance with the WEEE 2012/19/EU guidelines or your local regulations. The device may also be returned to the manufacturer for proper recycling.
- The end of the battery life is indicated by the expiry date printed on the label. Accuracy and proper function of the device cannot be assured beyond this date.

### Useful life

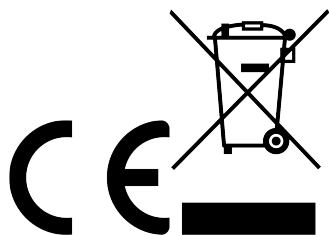
- The devices can be used XXX days, but not longer than 365 days. It depends on the device type (see [technical specifications](#)) and on the condition that:
- The buttons are not pressed for a very long time, e.g. if jammed between the goods in a shipment.
- Storage and operation of the device should remain inside the recommendations of the manufacturer, especially temperatures below 0°C or 32°F could have a negative influence on the operating lifetime of the battery.

### Attention


All devices of the Q-tag CLm doc family monitor temperature exposures and not the product quality. Its purpose is to signal if product quality evaluation or testing is required.

Subject to change. Please note that all information in this document is correct at the time of publication. Due to our policy of continuous product development, we reserve the right to change this information without prior notice.

## Regulatory certification



Manufactured by:

	<p>Berlinger &amp; Co. AG Mitteldorfstrasse 2 9608 Ganterischwil SWITZERLAND</p>
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## 7. Q-tag CLm doc L User Guide Videos

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Visit our website under [www.berlinger.com/videos](http://www.berlinger.com/videos) or subscribe to our [YouTube Channel Berlinger & Co. AG](#) for streaming our user guide videos online.

## 8. Firmware

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Device	Firmware
CLm doc	4.7.04o
CLm doc L	4.7.04o
CLm doc LR	4.7.04o
CLm doc D	4.7.04o
CLm doc Ice	4.8.00
CLm doc Ice R	4.8.00

## 9. FAQ / Glossary

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### Frequently Asked Questions (FAQ)

For technical problems or questions, please visit the Berlinger Support Center: [FAQ – Q-tag CLm doc Family](#)

### Glossary of Terms

Abbreviation	Title	Description
SOP	Standard Operating Procedure	Standard Operating Procedure (short SOP) is a binding textual description of the processes of procedures including the examination of results and their documentation.