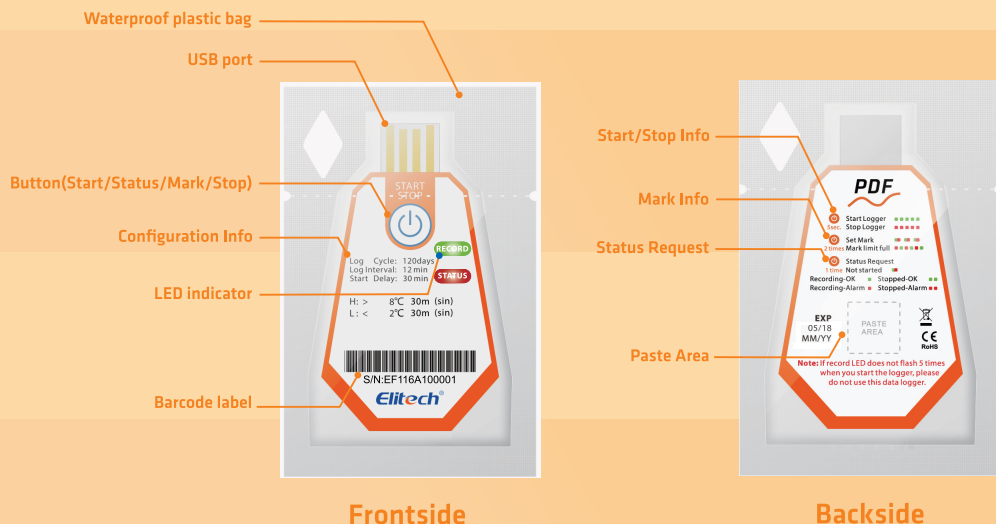


# User Manual – RC-18/19

## Single-Use Temperature Logger



Note: The picture is for reference only. Any discrepancy in future, please adhere to the final product.

## Product Overview

This document describes specific validation procedures for RC-18/19 data loggers, for the purpose to ensure the proper operation and provide a reliable temperature and time record during transportation and storage.

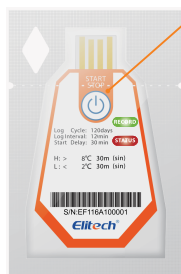
### Technical Specifications

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Recording Options      | Single-Use                                                |
| Temperature Range      | -30 °C to 70 °C                                           |
| Temperature Accuracy   | ±0.5 (-20 °C / +40 °C); ±1.0 (other range)                |
| Temperature Resolution | 0.1 °C                                                    |
| Data Storage Capacity  | 16,000 readings                                           |
| Shelf Life / Battery   | 2 years <sup>1</sup> / CR2450 button cell                 |
| Recording Interval     | 6 minutes (standard, others on request)                   |
| Recording Duration     | up to 180 days <sup>2</sup> (standard, others on request) |
| Startup Mode           | Button or software                                        |
| Stop Mode              | Button, software or stop when full                        |
| Protection Class       | IP67 / NEMA 6                                             |
| Dimensions             | 80mm x 48mm x 5.8mm (L x W x H)                           |
| Weight                 | Approx. 15g                                               |

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Certifications         | EN 12830, CE, RoHS                                                   |
| Validation Certificate | Hardcopy and PDF file in memory                                      |
| Software               | ElitechLog Win (V1.0.0 or newer)<br>ElitechLog Mac (V1.0.0 or newer) |
| Report Generation      | Automatic PDF                                                        |
| Password Protection    | Optional on request                                                  |
| Connection Interface   | USB 2.0, A-Type                                                      |
| Alarm Configuration    | Optional, up to 5 points                                             |
| Reprogrammable         | ElitechLog Win (V1.0.0 or newer)<br>ElitechLog Mac (V1.0.0 or newer) |
| Accessories incl.      | Shipping Documents, Certificate,<br>Reprogram Label and Seal-Bag     |

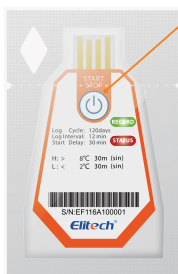
- 1 Depending on optimal storage conditions (+15 °C to +23 °C / 45% to 75% rh)
- 2 Depending on application temperature (very low / high temperatures may shorten it)

## Operation Instructions



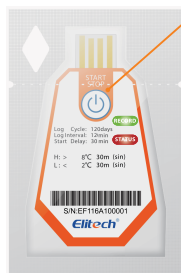
Press button

- 01** Keep button pressed for minimum 5 seconds to start recording. Then RECORD LED flashes 5 times, which indicates a successful starting. If STATUS LED is lit for 3 seconds, please do not use the logger(indicating low battery)! Tear off serial number label for your reference.



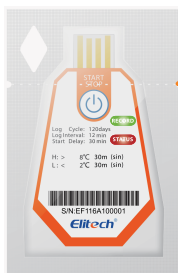
Press button

- 02** Press button once at any time to check current status of the logger. Double-click button to set a mark in the report. See details of these optional features in tables below.



Press button

- 03** Keep button pressed for minimum 5 seconds to stop recording. Then STATUS LED flashes 5 times, which indicates a successful stopping.



Tear off

- 04** After stopping record, tear off the transparent plastic cover and connect the logger to a USB port of the computer. The PDF and report will be generated automatically and can be found in the device's folder.

## Operation Indication

### Start / Stop

| Status       | Action               | LED confirmation                               |
|--------------|----------------------|------------------------------------------------|
| Start Logger | 5 sec pushing button | RECORD LED flashing 5 times ●●●●●              |
| Set Mark     | double-click button  | STATUS LED + RECORD LED flashing 5 times ●●●●● |
| Stop Logger  | 5 sec pushing button | STATUS LED flashing 5 times ●●●●●              |

### Status Request by pushing Button 1 time

| Status            | Action             | LED confirmation                           |
|-------------------|--------------------|--------------------------------------------|
| Not Started       | push button 1 time | STATUS LED + RECORD LED flashing 1 time ●● |
| Recording – OK    | push button 1 time | RECORD LED flashing 1 time ●               |
| Recording – Alarm | push button 1 time | STATUS LED flashing 1 time ●               |
| Stopped – OK      | push button 1 time | RECORD LED flashing 2 times ●●             |
| Stopped – Alarm   | push button 1 time | STATUS LED flashing 2 times ●●             |

# User Manual – RC-18/19

## Single-Use Temperature Logger

### Notes

- When RC-18/19 logger is stopped and connected to the computer the first time, both LEDs are flashing to indicate the PDF report is in process of generation. At this time, please do not unplug the logger until both LEDs are on, which indicates the finished PDF generation.
- A stopped RC-18/19 logger cannot be started again.
- Do not place RC-18/19 logger into corrosive liquid or expose to direct heat.
- The battery of RC-18/19 loggers is a non-exchangeable CR2450 lithium battery.
- Store RC-18/19 loggers under room temperature conditions and do not use expired devices
- Please dispose RC-18/19 loggers in accordance with local laws and regulations (electronic waste).
- To reprogram RC-18/19 loggers, you need the ElitechLog Win (V1.0.0 or newer) and ElitechLog Mac (V1.0.0 or newer). Please follow the instructions in the extra manual, or visit [www.elitechlog.com](http://www.elitechlog.com) for further information.

### 1:1 Time Zone Conversion Table

The standard time of RC-18/19 is UTC±0:00 To match your local time, please note the time difference.

| Value         | Time Zone                                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| (UTC + 14:00) | Line Islands, Kiribati                                                                                                                        |
| (UTC + 13:00) | Nuku'alofa                                                                                                                                    |
| (UTC + 12:00) | Auckland, Wellington, Fiji, Karnchatka, Marshall Is.                                                                                          |
| (UTC + 11:30) | Norfolk Island                                                                                                                                |
| (UTC + 11:00) | Magadan, Solomon Is., New Caledonia                                                                                                           |
| (UTC + 10:30) | Lord Howe Island                                                                                                                              |
| (UTC + 10:00) | Brisbane, Canberra, Melbourne, Sydney, Hobart, Vladivostok, Guam, Port Moersby                                                                |
| (UTC + 09:30) | Darwin, NT, Australien, Adelaide, SA, Australien                                                                                              |
| (UTC + 09:00) | Yakutsk, Osaka, Sapporo, Tokyo, Seoul, Adelaide, Darwin                                                                                       |
| (UTC + 08:00) | Perth, Taipei, Kuala Lumpur, Singapore, Irkutsk, Ulaan Bataar, Beijing, Chongqing, Hong Kong, Urumqi                                          |
| (UTC + 07:00) | Krasnoyarsk, Bangkok, Hanoi, Jakarta                                                                                                          |
| (UTC + 06:30) | Myanmar, Rangun, Myanmar, Kokosinseln                                                                                                         |
| (UTC + 06:00) | Astana, Dhaka, Yangoon (Rangoon), Almaty, Novosibirsk                                                                                         |
| (UTC + 05:45) | Nepal, Kathmandu                                                                                                                              |
| (UTC + 05:30) | Indien, Neu Delh, Mumbai, Kalkutta, Adamanen-Inseln, Nicobar-Inseln                                                                           |
| (UTC + 05:00) | Ekaterinburg, Chennai, Kolkata, Mumbai, New Dehli, Kathmandu, Islamabad, Karachi, Sri Jayawardenepura, Tashkent                               |
| (UTC + 04:30) | Afghanistan                                                                                                                                   |
| (UTC + 04:00) | Kabul, Abu Dhabi, Muscat, Yerevan, Baku, Caucasus Standard Time                                                                               |
| (UTC + 03:30) | Teheran, Iran                                                                                                                                 |
| (UTC + 03:00) | Moscow, St. Petersburg, Volgograd, Tehran, Tbilisi, Nairobi, Baghdad, Kuwait, Riyadh                                                          |
| (UTC + 02:00) | Minsk, Cairo, Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius, Athens, Bucharest, Istanbul, Jerusalem, Amman, Beirut, Harare, Pretoria          |
| (UTC + 01:00) | Brussels, Copenhagen, Madrid, Paris, West Central Africa, Sarajevo, Skopje, Warsaw, Zagreb, Belgrade, Bratislava, Budapest, Ljubljana, Prague |
| (UTC ± 00:00) | Dublin, Edinburgh, Lisbon, London, Monrovia, Reykjavik, Casablanca (standard time of RC-18/19)                                                |
| (UTC - 01:00) | Azores, Cape Verde Is.                                                                                                                        |
| (UTC - 02:00) | Mid-Atlantic                                                                                                                                  |
| (UTC - 03:00) | Buenos Aires, Brasilia, Greenland, Moncton, Newfoundland, Georgetown                                                                          |
| (UTC - 03:30) | Newfoundland, Kanada, Surinam                                                                                                                 |
| (UTC - 04:00) | Atlantic Time (Canada), Manaus, Santiago, La Paz, Caracas                                                                                     |
| (UTC - 05:00) | Eastern Time (US & Canada), Bogota, Lima, Quito, Rio Branco                                                                                   |
| (UTC - 06:00) | Central Time (US & Canada), Guadalajara, Mexico City, Monterrey, Central America                                                              |
| (UTC - 07:00) | Mountain Time (US & Canada), Arizona, Chihuahua, La Paz, Mazatlan                                                                             |
| (UTC - 08:00) | Pacific Time (US & Canada)                                                                                                                    |
| (UTC - 09:00) | Alaska                                                                                                                                        |
| (UTC - 10:00) | Hawaii                                                                                                                                        |
| (UTC - 11:00) | Midway Island, Samoa                                                                                                                          |
| (UTC - 12:00) | International Date Line West                                                                                                                  |

RC-18/19

**CAUTION**

TEMPERATURE MONITORING

**Elitech**<sup>®</sup>

*Elite of technology*



SHIPPER \_\_\_\_\_

CONTAINER NO. \_\_\_\_\_

TRUCK NO. \_\_\_\_\_

B/L NO. \_\_\_\_\_

REF NO. \_\_\_\_\_

CONTENTS \_\_\_\_\_

LOGGER SERIAL NO. \_\_\_\_\_

START DATE \_\_\_\_\_ DEPARTURE PORT \_\_\_\_\_

START TIME \_\_\_\_\_ ARRIVAL PORT \_\_\_\_\_

Attach RC-18/19

**HERE**

TEMPERATURE REQUIRED

\_\_\_\_\_ □°C □°F