

# User Manual - Single-Use Temperature Logger



## Notes

- When INNO.Log logger is stopped and connected to computer the first time, Green LED Keep lighting the PDF and CSV reports are in process of generation. At this time, please DO NOT unplug the logger until red led flashing, which indicates the finished PDF and CSV report generation.
- A stopped INNO.Log logger cannot be started again.
- Do not place INNO.Log logger into corrosive liquid or expose to direct heat.
- The battery of INNO.Log logger is non-replaceable CR2450 lithium battery.
- Store INNO.Log logger under room temperature conditions and do not use once it is expired.
- Please dispose INNO.Log loggers in accordance with local laws and regulations (electronic waste).
- Please follow instructions in the extra manual, or visit [www.kelvin-solutions.com](http://www.kelvin-solutions.com) for further information.

## 1:1 Time Zone Conversion Table

The standard time of INNO.Log is UTC 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, Hobard, 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, Yangon (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 Jayawardanepura, 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, Monetvideo, 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, Samos
(UTC - 12:00)	International Date Line West



## CAUTION

Temperature monitoring in progress.

### General Information

Shipper

Container No.

Truck No.

B/L No.

Ref No.

Contents

Logger Serial No.

Start Date

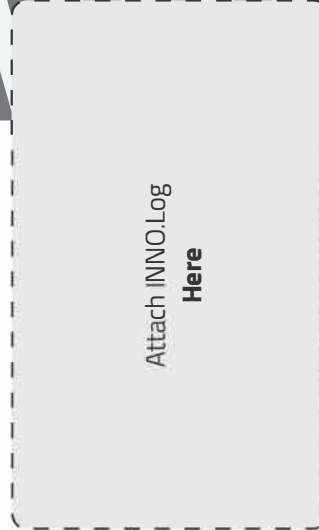
Start Time

Departure Port

Arrival Port

Temperature Required

°C  °F

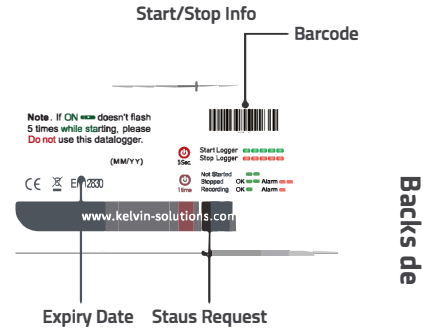
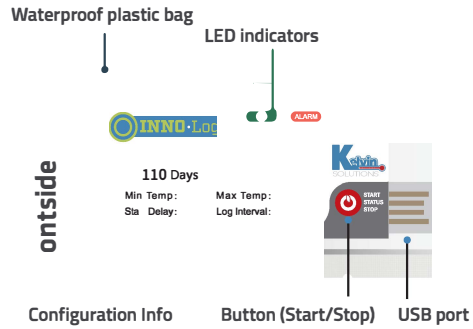


# User Manual<sup>®</sup>

## Single-Use Temperature Logger

**Klipspringer**

Compliance with confidence



- 01 Preconfigured and ready to use**
- 02 Add started Halveon INNO.Log SU to your Shipment**
- 03 Connect stopped Logger directly to USB Port**
- 04 Automated PDF & CSV Report with all Details**

## Operation Instructions

- 01** Keep button pressed for minimum 5 seconds to start recording. Then **RECORD LED** flashes 5 times, which indicates a successful starting. Tear off serial number label for your reference.
- 02** Press button once at any time to check the current status of the logger. See details of these optional features in table below.
- 03** Keep button pressed for minimum 5 seconds to stop recording. Then **ALARM LED** flashed 5 times which indicates a successful stopping.
- 04** After stopping record, tear off the transparent plastic cover and connect the logger to a USB port of the computer. The PDF and CSV report will be generated automatically and can be found in the device's folder.

## Product Overview

This document describes specific validation procedures for INNO Log data loggers, for the purpose to ensure the proper operation and provide a reliable temperature and time record during transportation and storage.

### Technical Specifications

<b>Recording Option</b>	Single Use
<b>Temperature Range</b>	-30°C to +70°C
<b>Temperature Accuracy</b>	± 0.3 °C (-20°C to +40°C); ± 1.0 °C (other range)
<b>Temperature Resolution</b>	0.01°C
<b>Data Storage Capacity</b>	16,000 Readings
<b>Shelf Life / Battery</b>	2 Years 1/ CR2450 Button Cell
<b>Recording Interval</b>	10 minutes (standard, customizable)
<b>Recording Duration</b>	upto 180 Days 2(customizable)
<b>Startup Mode</b>	Button or Software
<b>Protection Class</b>	IP67 / NEMA 6
<b>Dimension</b>	95mm X 55mm X 4.5mm
<b>Weight</b>	Approx 18 Gms

<b>Certifications</b>	EN12830, CE
<b>Validation Certificate</b>	Hardcopy and PDF file in Memory
<b>Report Generation</b>	Auto Generated PDF and CSV
<b>Password Protection</b>	Optional on request
<b>Connection Interface</b>	USB 2.0, A-type
<b>Alarm Configuration</b>	2 points
<b>Accessories Incl.</b>	Shipping Documents, certificate

- Depending on optimal storage conditions (15°C to +25°C / 45% to 75% rH)
- Depending on application temperature (Extreme low / high temperature may shorten battery life)

## Operation Indication

### Start / Stop

Status	Action	LED confirmation
Start Logger	5 sec pushing button	<b>RECORD LED</b> flashing 5 times ●●●●●
Stop Logger	5 sec pushing button	<b>ALARM LED</b> flashing 5 times ●●●●●

### Status Request by pushing Button 1 time

Status	Action	LED confirmation
Not Started	Push button 1 time	<b>RECORD LED + ALARM LED</b> flashing 1 time ●●
Recording - OK	Push button 1 time	<b>RECORD LED</b> flashing 1 time ●
Recording - Alarm	Push button 1 time	<b>ALARM LED</b> flashing 1 time ●
Stopped - OK	Push button 1 time	<b>RECORD LED</b> flashing 2 times ●●
Stopped - Alarm	Push button 1 time	<b>ALARM LED</b> flashing 2 time ●●