

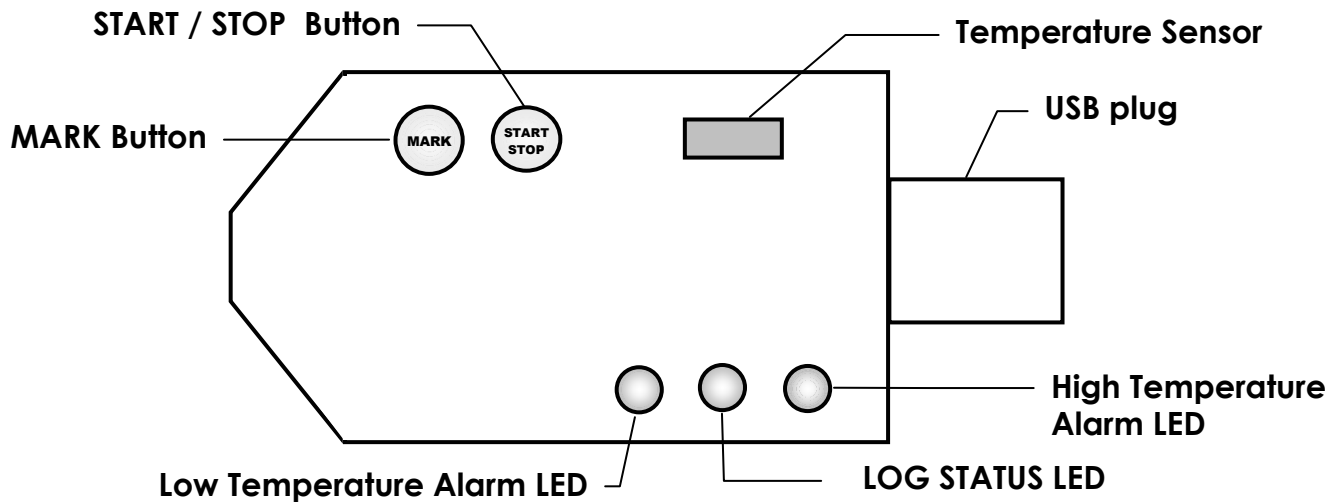
TransXecure

Secured PDF

temperature logger

Operation Manual

LOGGER LAYOUT AND DEFINITION:



SETUP:

1. Before logger is used, it must be setup to define logging parameters.
2. Remove a new logger from bag and plug into the USB port of a computer. (compatible to USB2.0 plug and play)
3. A folder window will automatically open. Select and open the file named "**PDF Logger Configuration Tool.exe**".
4. From the configuration window, select desired language.
5. **Sampling Rate:** Select from dropdown time interval to log each reading.

Sampling Rate	30 sec.	5 min.	10 min.	30 min.	60 min.	90 min.	120 min.
Maximum Log Days	2.8 days	28 days	57 days	171 days	341 days	512 days	683 days

6. **Alarm Type:** Alarm LED is a simple form of QC to give attention to the recipient that temperature limits was violated during transit and investigate is required. Select from dropdown the suitable type:

Single – Alarm LED will light-up immediately whenever temperature exceeds the Alarm Limits.

Cumulative – Alarm LED will light-up when the average logged reading over the **Alarm Delay** period exceeds the **Alarm Limit**. (This is the preferred type as it is to prevent false alarm where temperature exceeds the **Alarm Limit** only for a short duration and yet not affecting the articles)

Disabled – Alarm LED will not be activated.

7. **Start Delay:** Select from dropdown the hold time to start logging after START button is activated. (Because logger will take some time to set into the environmental temperature of the transit container, typical delay should set to 30mintues or more depending on size of the container)

8. **Alarm Delay (Available for Cumulative Alarm type only):** Select from dropdown the time period to calculate an average logged reading. The calculation will begin when temperature exceeds the **Alarm Limit** and will stop at the end of this time period; an average reading is obtained and when the average reading exceeds the set **Alarm Limit**, the alarm LED will light up.
9. **Temp. Unit:** Select from dropdown the unit measurement of temperature in Celsius or Fahrenheit.
10. **Alarm Limit:** Select from dropdown the temperature range to trigger the alarm LED to light-up. Select others will allow individual range setting at the box below, where left is lowest and right highest temperature. Alarm LED will flash red 3 times every 5 seconds when triggered.
11. **Password:** Select from dropdown to enable or disable. When enabled, further prompting will appear to key password to limit access for setup.
12. **Company Name:** Key in the owner's name or sender's company or consignee's name or batch identity, that will appear in the PDF report.
13. **SAVE:** This will save the settings. These settings can still be adjusted as long as the logging is not activated or started.
14. **Time zone:** The logger will synchronize with PC clock when save button is press. Date and time will not change during transit or at destination.

OPERATIONS:

1. After Logger is setup, place it into the sealer bag and fully seal the zipper.
2. Place the bag where there is good air flow. Do not stack or sandwich the logger between articles. Logger bag can be paste onto any smooth surface.

CAUTION

**Do not paste on rough or textured surface as logger may dislodge during transit.
Logger will damage if come into impact with any hard objects.
Logger bag can be punctured by sharp objects, thus render it non-waterproof**

3. After logger is place in position, hold-down the **START** button for 3 seconds to activate logging. All LED will light up in red momentarily indicating logging has begun, thereafter Log Status flashes green every 2 seconds.
4. During transit, if there is an event happened; press the **MARK** button will put a marking on the date and time of the logged reading.
5. Upon reaching destination, hold-down the **STOP** button for 3 seconds to terminate/stop logging. After which, logger is locked-out and a secured PDF data file is generated in its memory.

6. Remove logger from seal bag and plug it onto the USB port of PC. Folder will appear.
7. Open the file with name same as the serial number of the logger:
#####_report.pdf
8. If Adobe PDF reader is not pre-installed in PC, please download and install it free from <https://get.adobe.com/reader/otherversions/>

LED LEGEND:

LED Type	Flashes GREEN	Flashes RED
LOG STATUS	3 times every 5 seconds indicates logger in standby	Continuously meaning battery is too low and logged readings will not be accurate
	Once every 2 seconds indicates Logging started	
ALARM LOW		Temperature exceeds lowest set Alarm Limits
ALARM HI		Temperature exceeds highest set Alarm Limits

TECHNICAL SPECIFICATIONS:

Operating Range	-30~70°C (-22~158°F)
Temperature Resolution	0.1°C (0.1°F)
Temperature Accuracy	+/-0.5°C
Logging Type	Single Use
Logger size	80(L)*43(W)*2.5(T) mm
Sampling data	8,192 readings
Shelf Life	12 months shelf time
Operating temperature	-30~70°C
Operating Humidity	< 80% RH
Storage temperature	-20~50°C
Storage Humidity	< 80% RH
Weight	Approximately 10 gram
Battery	1 x 3.0Volt CR2032
Sampling interval (minutes)	30 seconds, 5, 10, 30, 60, 90,120
Start delay (minutes)	0, 5, 30, 45, 60, 90,120
Alarm range (°C)	-20~ -10, -10~0, 2~8,0~15, 0~25, 15~25 or others
Alarm delay (minutes)	0, 5, 30, 45, 60, 90, 120
Alarm type	Single, Cumulative, Disable
Protection class	IP65 (unit placed in zipper bag)
PC compatibility	Windows operating system XP above
Logged file compatibility	Adobe pdf reader
EMC Directives	EN12830, FDA21 CFR Part 11