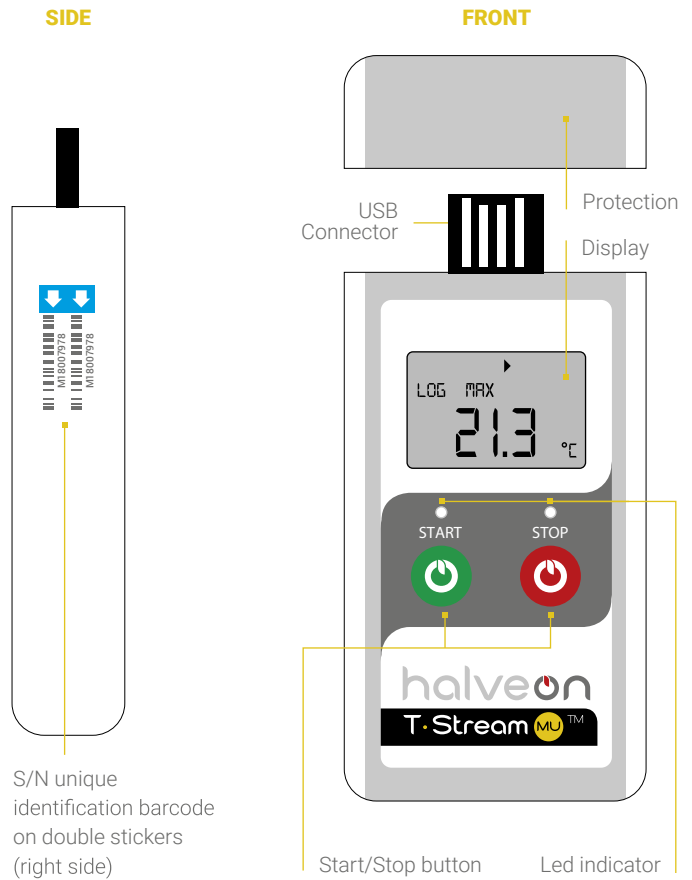
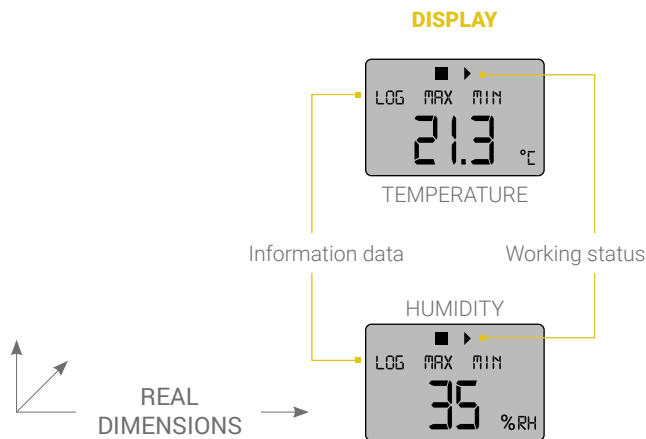


The **Halveon T-Stream MU** monitors both temperature & humidity without the necessity of any additional software, end-user could quickly acquire detailed data reports in both PDF and CSV format.



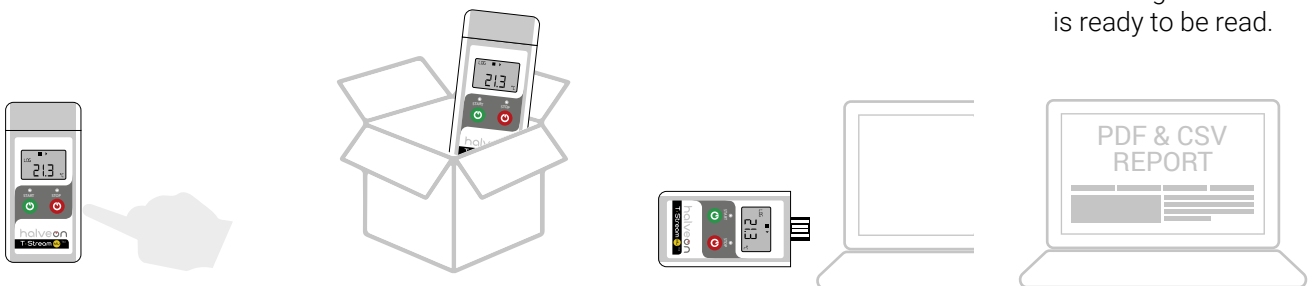
EASY HANDLING

1 Preconfigured and ready to use: press the START button to activate the LCD display on the Halveon T-Stream™ MU.

2 Insert activated Halveon T-Stream™ MU into the shipment package.

3 Stop logger by pushing the red button for 5 seconds (Red led flashing 5 times).



4 Insert the logger into the USBport and wait for the data to be downloaded (Green light will blink until it turns Red light), indicating that the data is ready to be read.






OPERATING INSTRUCTIONS AND INDICATORS

I INSPECTING THE LOGGER

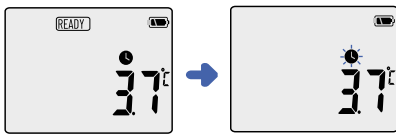



Single press any button  or  to activate the device, "READY" means it has been activated.

The battery indicates the power of the logger.

-  Full power, easy using.
-  Low power, not suggested for accurate usage, be aware the device may possibly stop during monitoring.
-  Empty power, cannot be started.

II START THE LOGGER WITH START/DELAY



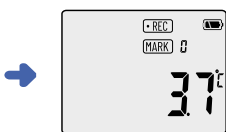
If the device is programmed with a start-delay: Press and hold "START/STOP" button for more than 4 secs until the "CLOCK" icon  appears, then

release the button within 2 secs. When the clock starts flashing, it indicates that it has started successfully. After the delay ends, the device will start to record, and the LCD will display "REC." automatically.



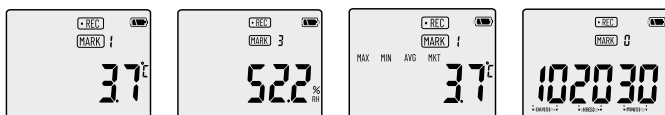
HI: Start-delay means a period that device is starting/working but not recording after delay passed the device will start recording automatically. In other words, when you see the clock flashing or "REC" both means start successfully.

II START THE LOGGER WITHOUT START/DELAY



When the device is not programmed with a start-delay: If the logger isn't programmed with a "start-delay", the LCD will show "REC." directly, which means it has started successfully and is now recording.

III MAKE AND VIEW IN TRANSIT



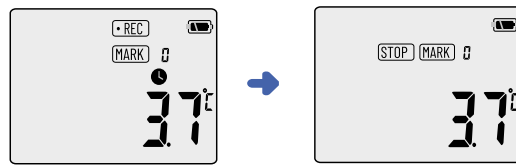
T-Stream MU loggers provide an option that user could double press "VIEW/MARK" button to mark an event at any time during the logger recording period; the mark will show in the report, the number beside the (MARK) indicates the times that has marked, the maximum mark is 8 times.


This optional function is mostly used for some important events or if urgent matters happen.

Single-press the "VIEW/MARK" button to check the time it has been recording and the **MIN / MAX / AVG / MKT** temperature and humidity since the recording started. (Single-press shows in turn)

The example shows: the logger has been recording 10 days 20hrs 30mins.

IV STOP THE LOGGER



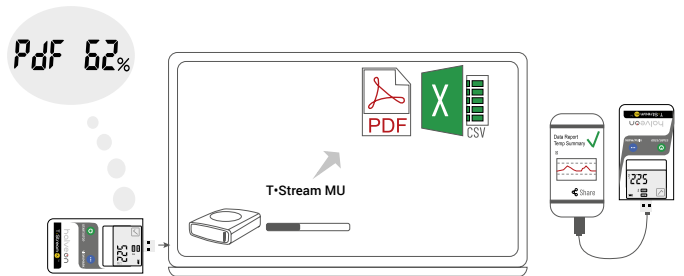
Press and hold "START/STOP" button for more than 4secs until the "CLOCK" icon  appears, then release the button within 2secs to stop, then the LCD will display "STOP" which indicates it has been stop successfully.

Note: if the logger is not stopped manually, the device will continue to record the data until it is plugged into a USB port on a PC or until the programmed trip length is reached.



HI: To Start or Stop the device: when hold and press the START/STOP button, a clock will show firstly; Release the pressing means execute the action. If continue pressing, the clock will disappear shortly afterwards which means cancel the action.

V GET THE REPORTS




Connect the unit to a PC, and the LCD will show the progress % it has generated. Once the progress reaches 100% the file generating process is complete, then a flash disk named "T-Stream MU" will pop up automatically with data reports. Also via an OTG line user could acquire the reports through an Android Smartphone.

VI T-STREAM MU SOFTWARE

T-Stream MU Software Temp/Hum (Multi-Use) V2.4

halveon

Languages Help

DEVICE INFORMATION 3 S/N: H85080467 Temp. Type: <input checked="" type="radio"/> °C <input type="radio"/> °F Start. Type: Auto Start. Type: Delay Start. Delay: 1 Min Timing: 2019/3/26 12:10:48 Time Zone: UTC+8 2019/3/26 16:18:05 Log Interval: 10 Min Log Cycle: 30 Min Points: 4320	TEMP ALARM 4 <input checked="" type="checkbox"/> Alarm Type: Single Alarm Delay: 5 Min Alarm Low: 2 °C Alarm High: 8 °C	DEVICE STATUS 1  Hardware Check: <input checked="" type="checkbox"/> Device Connect: <input checked="" type="checkbox"/>
TRIP INFORMATION 6 [Empty text box] 240 characters maximum, currently characters remaining: 149	HUMIDITY ALARM 5 <input checked="" type="checkbox"/> Alarm Type: Cumula Alarm Delay: 5 Min Alarm Low: 30.0 % Alarm High: 70.0 %	OTHER FUNCTIONS 7 Forbid Manual Stop: <input type="checkbox"/> Restart: <input type="checkbox"/> Auto Config: <input type="checkbox"/>

Notice: device status OK! 2

OPERATE
Submit

VI-1 DEVICE EXAMINATIONS 1 2


"T-Stream Software" has an innovative inspecting function that effectively ensures the safe usage the Software icon to enter and then connect the device to your computer, the software will automatically examine the device including battery power, hardware, and connection status.

Red light means error; green light means OK to start the configuration.



HI: Sometimes due to an aging of PC USB port, or not connect USB port entirely will lead to a missing. If this happens, please double check the PC USB port or try another port.

VI-2 DEVICE CONFIGURATION

Device information area  , each unit has a unique serial number, and user can configure the device to their preference.

a) START TYPE

MANUAL: after configured successfully, the device needs to be manually started by pressing the button.

AUTO: after configured successfully, the device will auto-execute.

b) START MODE

DELAY: after the delay period passed, the device will start recording automatically (if delay is not needed, select 0 min)

TIMING: the logger will auto-start at the given time.

TEMPERATURE: the logger will auto-start recording once it meets the selected range.

c) TEMP AND HUMIDITY ALARM

Select a temperature and humidity range, alarm type and delay time for the alarm settings.




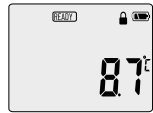
HI: Temp & Humidity Alarm is not when temperature exceeds the selected range will alert in the way of sounding, but to indicates on the LCD screen and the reports. If no need then un-select the function then won't show the alarm information. (Image 3)

VI-3 OTHER FUNCTIONS 6 7

a) TRIP INFORMATION

Type any information in area 5, the info will be presented on the generated reports. The info could be: customer, location, order number, etc.

b) FORBID MANUAL STOP

After selected, user cannot stop the device manually only by connecting the device to a PC and after configured the LCD will show a lock icon:  

c) RESTART

After selected, user doesn't need to config the device each time. To restart follow the same starting procedure.

Note: the original data will be formatted once restart, please acquire the reports before restarting.

d) AUTO CONFIG

When user needs to config many units at one time, for time efficiency, select the required configuration, and then choose "Auto Config", the software will config the units automatically: just plug in and out, with no need for further procedures.

VII TECHNICAL SPECIFICATION

MODEL	T-Stream MU
TYPE	Multi-use
SENSOR	NTC
RANGE	-35°C~+70°C (-31°F~+158°F)
ACCURACY	±0.3°C (±0.54°F) ±3%RH (30°C, 10%~70%) ±0.4% RH (Rest)
RESOLUTION	0,1
CAPACITY	16000 points (8000 temp, 8000 humidity)
BATTERY	3.6v Li
BATTERY LIFE	2-3 years or longer
CALIBRATION	Factory Calibration and NIST CNAS
CERTIFICATION	• CE • RoHS • DO160 • IATA PI970 II
WARRANTY	1 year
SIZE	106x51x18mm
WEIGHT	65g
WATER-PROOF	IP54
CONNECTION	USB 2.0
SOFTWARE	T-Stream Software

VIII IMPORTANT NOTES

USAGE

- While the reports are generating, please do not remove the logger.
- To ensure long-term effectiveness, store the logger at room temperature before using.
- The logger's shelf life may be shortened if it is stored outside of the temperature range.
- Please recycle or dispose the logger in accordance with local laws and regulations.

BATTERY

- Do not throw devices with batteries in the fire or expose to extreme temperatures, this could lead to destruction of the battery and may cause injuries.
- Do not short-circuit or reload batteries: this is a safety hazard!
- Batteries are to be kept away from children.

SECURITY NOTE

- Do not use in microwaves, there is a risk of explosion.
- X-ray exposure can damage the logger.

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 cooling unit
- If the stored goods have expired
- For incorrect readings of the device or if it was activated with a low battery

ATTENTION: the T-Stream MU loggers monitor temperature and humidity exposure and not the product quality. It's purpose is to send a signal if product quality evaluation/testing is required.