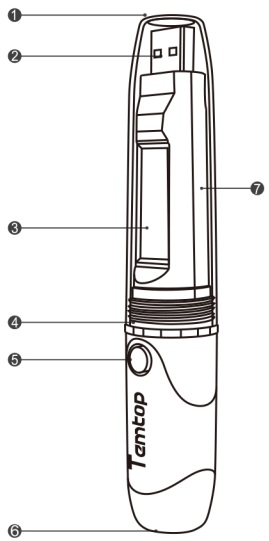
Product Overview

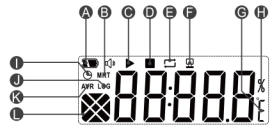
This temperature data logger is mainly used in the fields or places of medicine, food, life science, flowers , breeding industry, ice chest, container, shady cabinet, medical cabinet ,refrigerator, laboratory and greenhouse,etc. TemLog 20 is plug and play and it can directly generate the data report, with no need to install data management software. The data can still be read in case battery runs out.

Structure Description



1	Transparent cap	5	Button
2	USB port	6	Sensor
3	LCD screen	7	Product label
4	Seal ring		

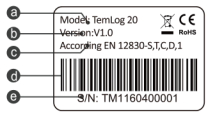
LCD screen



A	Battery indicator	G	Temperature unit(℃/°F)
B	Mean kinetic temperature	H	Progress percentage
C	Start recording indicator	I	Timing indicator
D	Stop recording indicator	J	Average value indicator
E	Cyclic recording indicator	K	Number of records
F	Computer connection indicator	L	Combined indicator

For more details, please refer to the menu and status indicator

Product label



a	Model	d	Barcode
b	Firmware version	e	Serial number
c	Certification information		

Technical Parameters

Temperature measuring range	-30℃ ~ +70℃	Sensor	Built-in temperature sensor
Resolution	0.1℃	Record capacity	32000 points (MAX)
Temperature accuracy	±0.5℃ (-20~+40℃) ±1℃ (others)	Log interval	10 seconds to 12 hours continuously set
Protection grade	IP67	Alarm type	Single/Cumulative
Alarm threshold	This data logger supports 5 temperature thresholds at maximum.		

Storage temperature	-30℃ ~ +70℃	Battery life	At least 24 months at 25℃ with 15 minutes record interval
Report type	PDF format, read by Adobe Reader		
Data interface	USB2.0	Size	131(length)* 24mm(diameter)
Battery	3.6V ER14250 disposable lithium battery	Weight	Approx 16g

Parameter Instruction

Users can reconfigure the parameters by data management software per actual needs. The original parameters and data will be cleared.

Alarm threshold	This data logger supports 3 upper temperature limits, 2 lower temperature limits.	
Alarm zone	The zone which beyond the alarm threshold	
Alarm type	Single	The data logger records the single time for continuous over-temperature events.
	Cumulative	The data logger records the cumulative time of all the over-temperature events.
Alarm delay	The data logger does not alarm immediately when the temperature is within the alarm zone. It begins to alarm only when the over-temperature time elapses the alarm delay time.	
MKT	Mean kinetic temperature, which is an evaluation method of the temperature fluctuation effect on the goods in storage.	

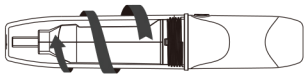
Operating Instructions

This data logger can be stopped by software. Users can stop the logger by clicking the stop button in the data management software.

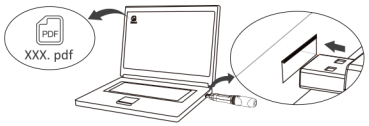
Action	Parameter configuration	Operation	LCD indicator
Start	Instant-on	Disconnect to USB	rEC
	Timing start	Disconnect to USB	StArt
	Manual start	Press and hold for 5s	rEC
	Manual start (delayed)	Press and hold for 5s	StArt
Stop	Manual stop	Press and hold for 5s	StoP
	Over-Max-record-capacity stop (disable manual stop)	Reach the Max capacity	StoP
	Over-Max-record-capacity stop (Enable manual stop)	Reach the Max capacity or press and hold the button for 5s	StoP
View	Press and release the button Refer to the menu and status indicator		

View data

When the data logger is inserted into the USB port of the computer, the data report will be created automatically. When the document is being created the LCD screen shows the progress of PDF Report creation.The document creation will last for no more than 4 minutes.



① Rotate the transparent cap in the direction of the arrow and remove it.



② Insert the data logger into the computer and view the data report.

Description of the menus

Menu	Description	Example
1[1]	Countdown of the (timing) start	03425 (hour:min:N*10*sec)
	Countdown of the (delayed) start	03425 [2] (hour:min:N*10*sec)
2	Current temperature value	23
3	Points of the records	32000
4	Recorder time interval	03425 [3]
5	MTK temperature value	42
6	Average temperature value	48
7	Maximum temperature value	98

Menu	Description	Example
8	Minimum temperature value	27
9	Upper Temperature 3	25.0
10	Upper Temperature 2	15.0
11	Upper Temperature 1	10.0
12	Lower Temperature 1	0.0
13	Lower Temperature 2	-5.0
14	Low power	Lo Po
15	Create PDF report	PdF 28

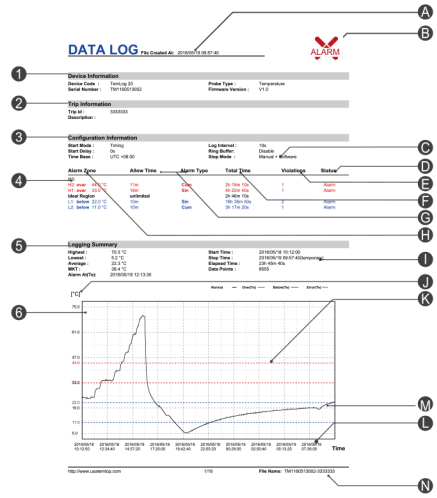
Description of the combined indicators and other status

Display	Description
(group) [4]	No alarm
(group)	Already alarmed
(group)	Minimum value
(group)	Maximum value

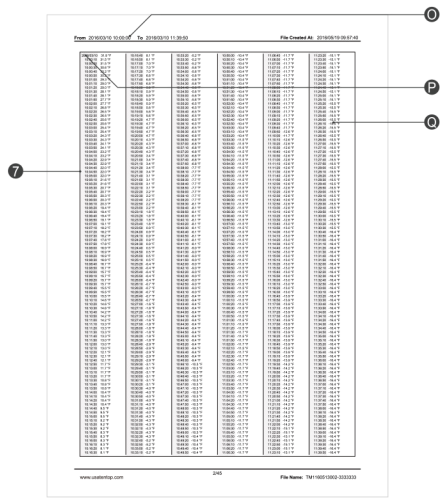
Display	Description
(group) rotating	Rate of progress
--	Null value
----	Clear data
USb	In USB communication

Note: 1 Menu 1 appears only when the corresponding function is selected.
2 "▶" should be in a state of blinking. content schema:3 hour:42 min: 50 sec
3 Content schema:（3 hour:42 min: 50 sec）
4 The display in the combined indicator area. The same as below.

Report



The first page

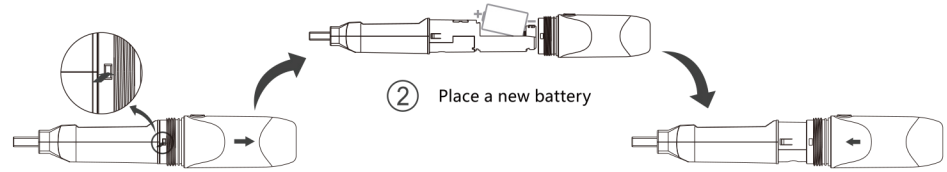


Other pages

1	Basic information	B	Alarm (Alarm status as shown in the figure above)	J	Vertical coordinate unit of the data graph
2	Description of the usage	C	Stop mode that has been set.	K	Alarm threshold line
3	Configuration information	D	Alarm status of the temperature alarm zone	L	Unit of time
4	Alarm threshold and related statistics	E	Total times of exceeding the temperature alarm threshold	M	Record data curve
5	Statistical information	F	Total time of exceeding the temperature alarm threshold	N	Document name (serial number & description of usage ID)
6	Temperature graph	G	Alarm delay and alarm type	O	Record time range in the current page
7	Temperature data details	H	Alarm threshold and temperature alarm zones	P	Records when date changes (date & temperature)
A	Document creation time (record stop time)	I	Actual stop mode (different from the item C)	Q	Records when the date is not changed (time & temperature)

Attention: The data above is only used as explanation of the report. Please refer to the actual document for specific configuration and information.

Replace Battery



① Press the bayonet in the direction of the arrow and remove battery cover

③ Install the battery cover in the direction of the arrow

What's included

1 temperature and humidity data logger 1 ER 14250 battery 1 user manual