# Overview

The temperature indicator is mainly used in the fields of pharmaceuticals, vaccine, blood, food, flowers and plants, laboratories, etc. especially for the places that require using temperature indicator of high waterproof grade in cold chain storage and transportation.

About the indicator

TI-40

25.6℃

✔=OK   ✗=Alarm

START   STOP

EM3172100001

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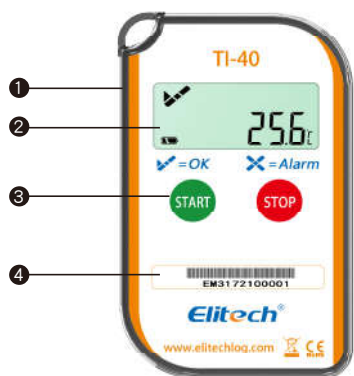
❶ Double-faced adhensive tape on the back

❷ LCD screen

❸ Start & stop botton

❹ Bar coade & serial No.

Technical parameters

Temperature measuring range : -30 ~ 70℃

Storage range : -25℃ ~ 60℃ ①

Temperature accuracy : -20℃~+ 40℃±0.5℃, other±1℃

Sensor : Internal NTC

Log interval : 5minutes (default)

Start delay : 1min~12hr, default setting (one min as step unit)

Power suply : internal CR2450 lithium battery

Bettery life : 2 yr at 25℃ with log interval 5 min

Protection grade : IP67 ②

Dimensions : 77mm*46mm*12 mm(L*W*H)

Weight : about 40g

Start : press the botton for over 5 seconds

Stop : press the botton for over 5 seconds

① It is recommended to store at room temperature before the temperature label is not activated.
② In order to ensure the waterproof level of the indicator, please do not steep the indicator in alcohol or oleic acid and other corrosive liquids for long time.

Parameter configuration

1) Before delivery, the indicator's parameters are configured.
   Just press START button to start it for use.

2) Default configuration:

Start delay: 10min	Alarm delay: 10h
Log interval: 5min	Temp L1 (low): -0.5℃
Temp H2 (high): 45℃	Alarm type: sin (single)
Alarm type: sin (single)	Alarm delay: 60min
Alarm delay: 60min	Temp L2 (low): -5℃
Temp H1 (high): 30℃	Alarm type: sin (single)
Alarm type: cum (cumulative)	Alarm delay: 60min

Operation instruction

1. Press (START) botton for about five seconds, "▶" will be on, The indicator successfully starting.

2. If there is start delay, short press the button, "▶" will flash 30 seconds to off; if no start delay, then "▶" will be on for 30 seconds to off.

3. When the LCD temperature indicator is on, if the current status is start delay, you can not stop the indicator by stop (STOP) buttun. After start delay time, press the STOP button for about 5 seconds, the "■" icon on the LCD screen will be off, "▶" lights up, it means that the LCD temperature indicator has stopped.when the LCD temperature indicator is stopped, it will not be possible to turn on the indicator by pressing the start (START) button.

4. short press the button to view the LCD temperature indicator's information, such as the maximum & minimum temperature, average teprature, alarm information, etc.

Working instruction

1. Not started state: the triangle in LCD screen is not displayed, see Figure 1

25.6℃   Fig 1 LCD indicator not started

2. Start delay status: the triangle in LCD screen flashes for 30 seconds and goes off, see Fig. 2

▶		▶

Fig 2 LCD indicator start delay

3. Working status (no alarm): the triangle in LCD screen stays on for 30 seconds and goes off.

25.6℃

Fig 3 LCD indicator Working status (no alarm)

4. Working status (alarm): LCD screen shows the wrong number and the corresponding temperature segment, the screen will be off after 30 seconds.

H2 H1
25.6℃

Fig 4 LCD indicator working status (alarm)
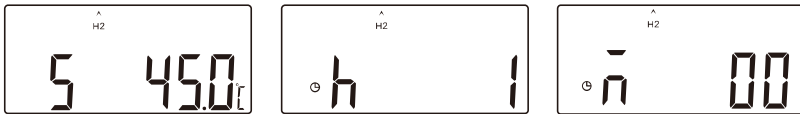
LCD display interfaceStatus interface

25.6℃

Max, Min, Average

MAX
38.8℃

MIN
18.6℃

AVR
20.6℃

System time

YY:MM:DD
17:01:12

HH:MM:SS
18:45:08

Temperature range configuration
H2 Alarm threshold 45.0 degree, alarm type single (Sin), alarm delay 1 hour.

H2
S   45.0℃

H2
h   1

H2
ṁ   00

H1 Alarm threshold 30.0 degree, alarm type cumulative (cum), alarm delay 10 hours.

H1
C   30.0℃

H1
h   10

H1
ṁ   00

L1 Alarm threshold -0.5 degree, alarm type Single (Sin), alarm delay 1 hour.

L1
S   -0.5℃

L1
h   1

L1
ṁ   00
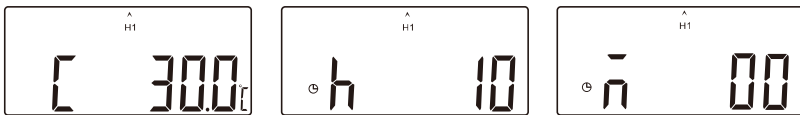
L2 Alarm threshold -0.5 degree, alarm type Single (Sin), alarm delay 1 hour.

L2
S   -5.0℃

L2
h   1

L2
ṁ   00

Start time: 10 hours 9 minutes.
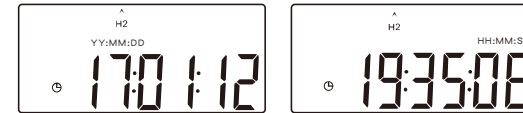
h   10

ṁ   09
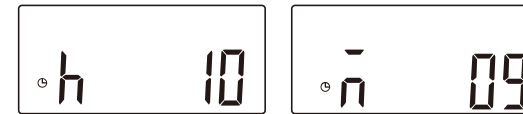
Temperature range alarm cumulative time

H2
h   1

H2
ṁ   08
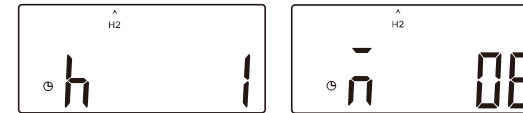
H2 temperature range alarm cumulative time 1 hour and 8 minutes Initial alarm time

H2
YY:MM:DD
17:01:12

H2
HH:MM:SS
19:35:08

H2 initial alrm time 12 Jan., 2017, 19:35:08

Serial No.

00018

Stop status (no alarm)

25.3℃

The last five number of serial No. 00018

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V3.0