

Whether in the storage or transportation, the GSP-6 is mainly used to record temperature and humidity of food, pharmaceutical and chemical products, along

The device is widely applicable to each stage of the logistic process, such as reefer containers and trucks, cooling bags and cabinets, medical and laboratory cold storage, among others...

The GSP-6 counts with a big LCD screen, a menu button, an external temperature sensor and an external temperature-humidity combined sensor.

There are two ways to store data on the unit, stop when the memory is full or continue recording over the existing data. The GSP-6 also has a sound-light alarm and the record interval will automatically be shorten in case the temperature goes over limit. Additionally, two magnets on the back of the device make it convenient to attach the logger to any metal surface.

Dimensions: 118 (length) * 61.5 (width) * 19 (height) (mm)

Technical Parameters

Temperature measuring range

_40°C ~ +85°C (Note:Cryogenic probe measuring range: -85°C~+150°C)

(Temperature probe): ±0.5°C(-20°C~+40°C):±1.0°C(others)

(Cryogenic probe): ±0.3°C(-20°C~+40°C);±0.5°C(-50°C~+85°C);±1.0°C(others)

Humidity range: 0%~100%

Humidity accuracy: ±3%RH (25°C,20% ~ 80%RH); ±5%RH (others)

Resolution: temperature 0.1°C, humidity 0.1%RH

Record capacity: 16000 points (MAX)

Record interval: 10 sec ~ 24 hour continuously set

Data interface: USB

Power supply: single-use 3.6V lithium battery or powered via USB

Battery life: two years at room temperature with 15 minute record interval and

buzzer alarm disabled

Ambient temperature: -30°C~70°C. At low temperature environment, the LCD screen displays normal readings but slower. It will display data normally when the ambient temperature returns to normal.

Use the Data Logger for the First Time

- 1. Install the data management software for GSP-6 data logger(Using an USB port connect the logger to a computer and install the software).
- 2. After connected to the computer, the software will automatically upload the information from the logger.
- 3.To configurate the settings, go to "Parameter", after the changes have been made, click "Save Parameter" and exit the program. The date and time will automatically syncronize with your computer after the parameters was successfully saved.
- 4. Press and hold the left button for more than 4 seconds, the logger will start recording when the symbol flashes out. Click the icon "upload data" to view the data. 5. Log out the data management software.

The data recorded will not be cleared from the unit after the data was transfered. The data can also be extracted when the data logger is currently in use and it will not affect its recoding performance.

- 1. Insert the data logger to a USB port, the icon

 and a green light LED will flash out in the screen when connected.
- 2. Open the data management software, the data logger will connect automatically and upload data.

Note: the parameters should be set on the computer. Please, refer to the additional support file of the management software

Button: switch interfaces, start/stop recording.

The data logger displays the following interfaces: display status, Max, Min, upper limit setpoint, lower limit setpoint and average value.

If the display status is off, press the button to enter. (See Fig.1)



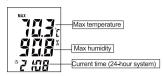
Fig.1

Click at the menu button to switch the screen. The data logger will display the current measured temperature and humidity values.

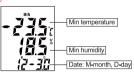
Symbol	Status	Meaning
	It lights up.	The data logger is recording.
	It flashes out.	The data logger is in start delay status.
	It lights.	The data logger stops recording.
▶ ■	Both do not light.	The data logger is not turned on.
Ŧ	It lights.	The measured temperature/humidity value is
		over the upper limit setpoint.
Ŧ	It lights.	The measured temperature/humidity value is
		over the lower limit setpoint.
	It lights.	The data logger is in cyclic record mode.
	It does not light.	The data logger is in full record stop mode.
u ()»	It lights.	Buzzer alarm is enabled.
묘	It lights.	The data logger is connected to a computer.
LOG	It lights.	The figure in the third line indicates the record points.
O	It lights.	The figure in the third line indicates the current time.

The figure in the first line indicates the current temperature, the figure in the second line indicates the current humidity.

Max value interface. See Fig.2



Min value interface. See Fig.3



Upper limit setpoint interface. See Fig.4.

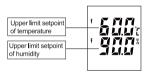


Fig.4

Lower limit setpoint interface. See Fig.5.

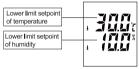
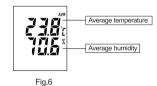


Fig.5

Average value interface, indicating the average value of all the temperature and humidity data measured. See Fig.6.



Operation Instruction

1. Start recording

Open the data management software and set the parameters, the data logger stays unstarted. Press and hold the button in status display interface for more than 4 seconds until the symbol ▶ lights up, the data logger starts recording. It delays starting when ▶ flashes out.

Note: The history data will be cleared after setting parameters by the data management software. Please read and save the history data before parameter settings.

1) The data logger stops recording automatically when the storage space is full. It stops recording when the symbol
shows on the display interface.

2)When "stop recording by button" is enabled in the parameters, press and hold the button for more than 4 seconds until the symbol ■ shows, it stops recording. 3)Stop recording by the data management software until the symbol ■ shows on the display interface.

When the data logger is paused, it will not be able to start the data logger again until the parameters are set in the data management sofware.

3. Switch interfaces

Click the button to switch the interfaces.

When logging, † lights up to indicate the measured temperature/humidity value is over the upper limit setpoint. 1 lights to indicate the measured temperature/humidity value is over the lower limit setpoint.

Set the record interval by the data management software, the data logger will save the record data accordingly. When the record interval is set, the software will automatically calculate the record duration.



6 Record duration

The duration from the start point to a full capacity stop.

The recorded data can be cleared by the data management software by setting parameters

8 Clock and calendar

Set and adjust the clock and calendar by the data management software.

9 Sensor status

On the display, "Err" indicates sensor fault or unconnected. "NC" in the data list of the software indicates sensor unconnected.

10. LED indicator and buzzer

When the data is over the upper/lower limit of temperature/humidity, the red LED indicator will flashes out once every 15 seconds.

When the data logger is connected to a computer, the green LED indicator will light up normally

When switching to a different mode:

- paused mode, buzzer beeps once and LED indicator flashes once.
- started mode, buzzer beeps twice and LED indicator flashes twice.
- stop mode, buzzer beeps 3 times and LED indicator flashes 3 times.
- start delay mode, buzzer beeps 4 times and LED indicator flashes 4 times.

In the Elitechwin software parameters settings, set "start delay time": keep pressing the button for about 4 seconds until the symbol flashes out. The LED indicator displays a solid light when recording.

12. Temperature unit:

Two units are optional (°C/°F) with °C as default.

13. Min/Max Display Setting

In the Elitechwin software parameters settings, select max/min recorded or by date.

oduct serial number and user information:

Set it by the data management software.

15. Auto off time of the screen

Set it by the data management software.

16 Buzzer alarm interval

Set it by the data management software.

ording and saving modes

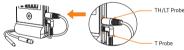
In the data management sofware, select the recod and save mode prefered, full record stop or cyclic record.

This function can be enabled in "full record stop" mode. If record interval is longer than 1 minute and over limit data is detected, the next record interval will be automatically shortened to 1 minute. When the data recovers to the normal range, the record interval returns to the set record interval.

19. Average temperature and humidit

The average value refers to the average of all the stored temperature and humidity data since the data logger started.

Please install the probes to the corresponding jacks of T and H, details are shown below:



Note: Temperature and humidity sensor should be installed in place. Select the desired mode from the parameters screen using Elitechlog Data Management Software

Sensor Type	Display
Temp(Probe T)+Humi(Probe H)	Temperature and humidity display (required two probes)
Temp(Probe T)+Temp(Probe H)	Dual temperature display (required two probes)
Temp+Humi(Probe H Only)*	Temperature and humidity display (Probe H only)*
Temp (Probe T)+ Ultra-low Temp (Probe H)	Dual temperature display (required two probes)

*Note: Probe H is a temperature-humidity probe, which can be used to display temperature and humidity by a single probe.





22.Model Selection:

Model	GSP-6	GSP-6G	GSP-6G PTE		
Туре	External Temperature and Humidity		External Low Temp		
Sensor	T Probe+TH Probe	G Probe+TH Probe	LT Probe		
Measurement	-40°C~+85°C	-40°C~+85°C	-85°C~+150°C		
Range	0%RH ~ 100%RH	0%RH ~ 100%RH			
Accuracy	TH Probe: ±0.5°C/±0.9°F (-20°C~+40°C), ±1°C/±1.8°F (others);				
±3%RH (25°C, 20%RH ~ 80%RH), ±5%RH (others)					
	T/G Probe: ±0.5°C/±0.9°F (-20°C~+40	°C), ±1°C/±1.8°F (others)			
	LT Probe:±0.3°C/±0.5°F (-20°C~+40°C), ±0.5°C/±0.9°F (-50°C~+85°C),±1°C/±1.8°F (others)				

Note: When the probe is not inserted into the product, the display interface is "---

23. Battery indications:

There is battery indication on the screen of the data logger.

Battery indicator	Capacity	
	25%~100%	
1	10%~25%	
	< 10 %	

Note: Please replace the battery ASAP when the battery capacity is less than or equals to 10%.

24. Elitechlog Data Management Software:

All the data from the data logger will be converted into a graph when transfered to Elitech log software. The history data can be saved, analyzed, and exported into aExcel or PDF file. In the Elitechlog sofware, click in the" Graph" tab, "export data" and then select the file format prefered. Go to Graph, dick Export Data and select the file format that you'd like to be saved onto your computer.

Elitechlog win is compatible with Windows XP, Windows 7, Windows 8, Windows 10.Please check for the instruction in Temperature & Humidity Data Management document (Open the Elitechlog software, dick Help).

25. Default parameters

Note: In the brackets are default values.

Note: In the brackets are default Running status: unstarted Record interval (15 minutes) Start delay time (0 minute) Data logger ID (1) Stop by button(Disabled) Temperature unit (°C) Upper temperature limit (60°C)

Lower temperature limit (-30°C) Temperature calibration (0°C)

Upper humidity limit (90%)

Lower humidity limit (10%) Humidity calibration (0%)

Button tone (disabled)

Buzzer alarm (disabled)
Buzzer alarm interval (disabled)

Auto turn-off time of the screen (15 sec)

Saving mode: (full record stop)
Auto shortening of record interval in case of over limit (disabled)

Set user info (GSP-6 Temperature & Humidity Data Logger)

26. Steps to replace the battery:





1. Open the battery compartment.

2. Remove the old battery.





3. Put in the new battery.

4. Close the battery compartment.

Notice: Cathode is on the end with a spring in the battery jar.

Standard configuration:

Name	QTY
GSP-6 Temperature and Humidity Data Logger	1
External humidity sensor	1 (2m)
External temperature sensor	1 (2m)
Micro USB data cable	1
User manual	1

To download software, please visit http://www.e-elitech.cn.

Optional accessory:

One piece of data management software setup disk(including the cabinet).

Elitech Technology, Inc.

2528 Qume Dr, Ste 2 San Jose, CA 95131 USA

Tel: (+1)408-844-4070

Sales: sales@elitechus.com Support: support@elitechus.com Website: www.elitechus.com

Software Download: elitechus.com/download/software

Elitech(UK)Limited

Unit 13 Greenwich Business Park 53 Norman Road, London, SE10 9QF

Tel: +44(0)208-858-1888 Sales: sales@elitech.uk.com

Support: service@elitech.uk.com Website:www.elitecheu.com

Software Download: elitechonline.co.uk/software