



# MINI

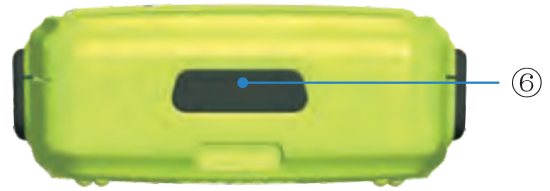
## MINI data logger for temperature and humidity

As called MINI, this kind of data logger is especially designed by ZOGLAB for monitoring on temperature and humidity. The unique design of alarm mark helps a lot for cargo and transportation applications in pharmaceutical, foodstuff and also other industries to evade risks that out-of-limit temperature and humidity may bring.



More info please visit [www.zoglab.cn](http://www.zoglab.cn)

## Product Description



- ① Vent
- ② Sensor
- ③ Query key
- ④ Display area
- ⑤ On/Off key
- ⑥ Communication port

## Communication Interfaces

Mini USB Interface						
	PIN	1	2	3	4	5
Signal		VCC	D-	D+	NC	GND
Description		Power	Data-	Data+	—	GND

## Features & Advantages

### • Small size for more applications

MINI can be easily installed in relatively narrow space because of the small size. With multiple patent designs, MINI data loggers support portable use and also in transit use.

### • Key design for on-site query

Two keys equipped on MINI data loggers, one is ON/OFF key, the other is MAX/MIN key. Making operations on ON/OFF key, to start or stop recording as needed. Using MAX/MIN to query MAX, MIN, or Average data of the logged on site.

### • LCD with wider viewing angle and more redundant temperature range in normal operation

LCD equipped on MINI data loggers, uses FSTN technology for much clearer display. User can easily get the display on LCD even at the viewing angle of 170°. Operation temperature of LCD ranging from -30°C to 70°C, which brings it to more applications.

### • Safety design, strict EMC test

ZOGLAB MINI data loggers pass both CE and FCC certificates, and are manufactured according to the requirements of RoHS. MINI series are able to withstand a 25KV static and to avoid secondary pollution to super clean areas thanks to the ABS+PC housing which is flame-retardant and free of toxicity.

### • Alarm mark

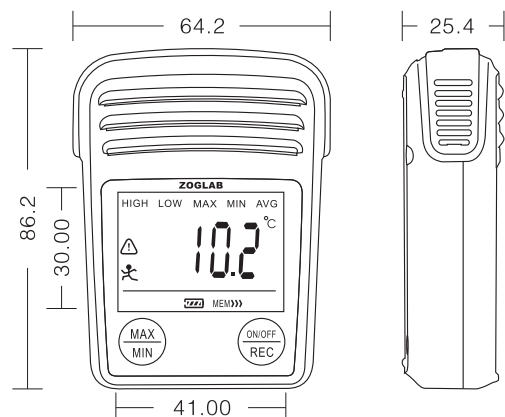
Alarm mark is uniquely designed for MINI data loggers which can help user know every out-of-limit alarm during the logging.

## Naming Convention

### MINI - TH-DP-15

Abbreviation	Measuring Object	LED	Memory Size
TH	Temperature+Humidity	DP Display	15 15,000(TH)
T	Temperature	NP No display	30 30,000(TH/T)
THCO <sub>2</sub>	Temperature+Humidity+Carbon Dioxide		60 60,000(T)
			20 20,000(THCO <sub>2</sub> )
			10 10,000(THCO <sub>2</sub> )

## Dimensions (Unit:mm)





## MINI-TH

### MINI Data Logger for Temperature and Humidity

#### Specifications

- Large-screen display of temperature and humidity, with battery, memory, recording status showing together
- High precision, mass memory for long-term logging
- Free of toxicity and halogen as FDA/HACCP/ISO22000 require
- Resistant to water and dust, suitable for cold chain systems of fresh food, fruit, vegetables or wine.
- Available Mini data logger with no LCD, for more redundant working temperature.



Compact  
Size



Low Cost



Alarm Mark



USB



Environmental



Key Operation

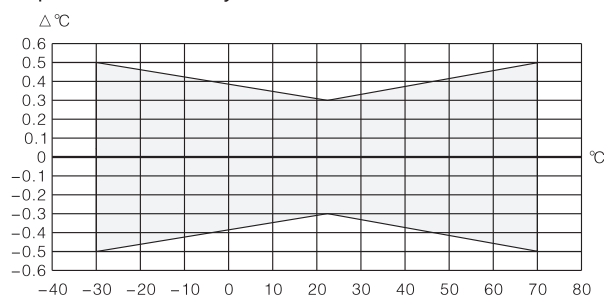
Measuring Data	
T Measuring range	-30°C~70°C, -40°C~85°C(No display)
T Accuracy	±0.5°C, ±0.3°C(High-precision version)
T Resolution	0.1°C/0.2°F
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH) ±5%RH(other range)
	(Testing Environment 23°C±2°C)
	±2%RH(High-precision version)
RH Resolution	0.1%RH

General	
Memory size	15,000 /30,000 units
Alarm	High level and low level
	Display+beep+backlight, support alarm mark*
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Key operation(software configurable)
	Start immediately / delay start / timing start
End mode	Key operation(software configurable)
	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	Mini USB2.0
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 60seconds)
Software	ANALYSIS 3
ESD Protection	±25KV
Storage temperature	-50°C~90°C
IP Class	IP64
Certificates	CE, FCC, VCCI, C-TICK

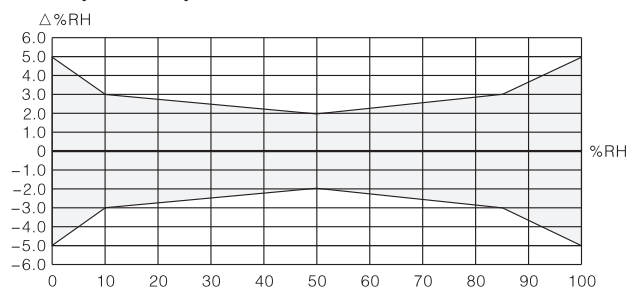
Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC, flame-retardant, toxicity and halogen free
Dimensions	86.2×64.2×25.4mm
Display area	41×30mm
Weight	85g

#### Temperature Accuracy



#### Humidity Accuracy



\*Alarm mark: A symbol shows up on the screen when one or more alarms happen during the logging.



# MINI-T

## MINI Data Logger for Temperature

### Specifications

- Large-screen display of temperature and humidity, with battery, memory, recording status showing together
- High precision, mass memory for long-term logging
- Free of toxicity and halogen as FDA/HACCP/ISO22000 require
- Resistant to water and dust, suitable for cold chain systems of fresh food, fruit, vegetables or wine.
- Available MINI data logger with no LCD, for more redundant working temperature.



Compact  
Size



Low Cost



Alarm Mark



USB



Environmental



Key Operation

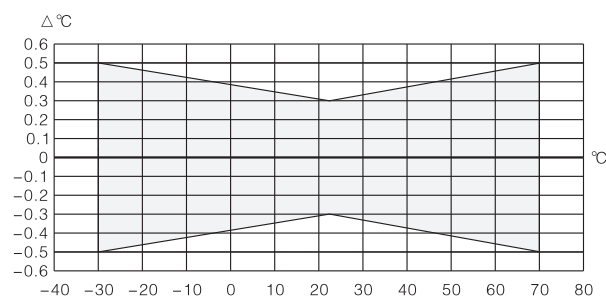
Measuring Data	
T Measuring range	-30°C~70°C, -40°C~85°C(No display)
T Accuracy	±0.5°C, ±0.3°C(High-precision version)
T Resolution	0.1°C/0.2°F

General	
Memory size	30,000 /60,000 units
Alarm	High level and low level Display+beep+backlight, support alarm mark*
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Key operation(software configurable) Start immediately / delay start/ timing start
End mode	Key operation(software configurable) Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	Mini USB2.0
Battery	3.6V lithium battery ×1
Battery lifetime	Typical 1year (With a sample rate of 60seconds)
Software	ANALYSIS 3
ESD Protection	±25KV
Storage temperature	-50°C~90°C
IP Class	IP64
Certificates	CE, FCC, VCCI, C-TICK

Sensing Probe	
Model	Internal

General Features	
Housing	ABS+PC, flame-retardant, toxicity and halogen free
Dimensions	86.2×64.2×25.4mm
Display area	41×30mm
Weight	84g

### Temperature Accuracy



\*Alarm mark: A symbol shows up on the screen when one or more alarms happen during the logging.





## MINI-THCO<sub>2</sub>

MINI Data Logger for Temperature  
Humidity and Carbon Dioxide

### Specifications

- Large-screen display of temperature, humidity and carbon dioxide, with battery, memory, recording status showing together
- High precision, mass memory for long-term logging
- Free of toxicity and halogen as FDA/HACCP/ISO22000 require
- Resistant to water and dust, suitable for cold chain systems of fresh food, fruit, vegetables or wine.
- Suitable for agriculture research, greenhouse cultivation and other applications



Compact  
Size



Low Cost



Alarm Mark



USB



Environmental



Key Operation

Measuring Data	
T Measuring range	-30°C~70°C, -40°C~85°C(No display)
T Accuracy	±0.5°C, ±0.3°C(High-precision version)
T Resolution	0.1°C/0.2°F
RH Measuring range	0%~100%RH
RH Accuracy	±3%RH(10%~85%RH) ±5%RH(other range)
	(Testing Environment 23°C±2°C)
	±2%RH(High-precision version)
RH Resolution	0.1%RH
CO <sub>2</sub> Measuring range	0~10000ppm(Customizable)
CO <sub>2</sub> Accuracy	±70ppm, ±40ppm
CO <sub>2</sub> Resolution	1ppm

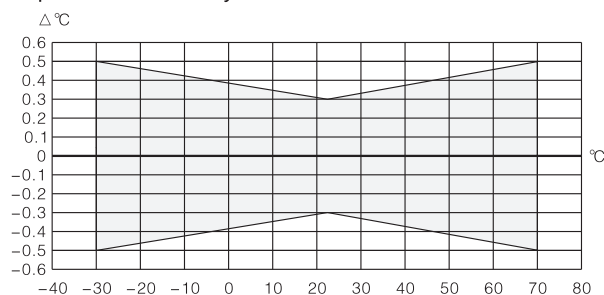
General	
Memory size	10,000 /20,000 units
Alarm	High level and low level
	Display+beep+backlight, support alarm mark*
Sampling interval	2s, 5s, 10s, 30s, 60s, 255s
Logging interval	2 seconds~24 hours
Start with delay time	1~120 seconds
Start mode	Key operation(software configurable)
	Start immediately / delay start / timing start
End mode	Key operation(software configurable)
	Full / FIFO / presetting units / timing end
Timing start/end	Random start/end with format YYMMDD HHMMSS
Interface	Mini USB2.0
Battery	3.6V lithium battery ×1
Battery lifetime	≥100 hours(With a sample rate of 60seconds)
Software	ANALYSIS 3
ESD Protection	±25KV
Storage temperature	-50°C~90°C

IP Class	IP64
Certificates	CE、FCC、VCCI、C-TICK

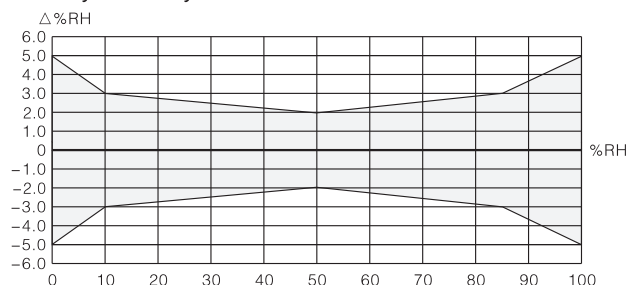
Sensing Probe	
Model	IR CO <sub>2</sub> sensor
	+high precision temperature and humidity probe

General Features	
Housing	ABS+PC, flame-retardant, toxicity and halogen free
Dimensions	86.2×64.2×25.4mm
Display area	41×30mm
Weight	96g

### Temperature Accuracy



### Humidity Accuracy



\*Alarm mark: A symbol shows up on the screen when one or more alarms happen during the logging.