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User Manual

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Ultimate Products

Single-Use Dry Ice Temperature Data Logger

Ultra-low temperature monitoring
−90~70℃

One-button start, easy to use

Unique traceability code

Application Areas

Fruit transportation
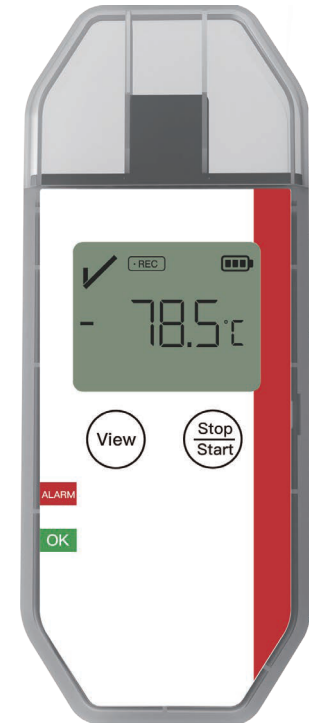
Seafood transportation

Medical drugs, laboratories

ZTAG-90T

Single-Use Dry Ice Temperature Data Logger

- This product is a temperature logger , with a temperature range of −90~+70℃;
- This recorder has an LCD display that can view temperature data, making it an ideal choice for temperature monitoring solutions for ultra-low temperature transportation and those that require frequent temperature recording
- It is mainly used to monitor and record the temperature data of food, fresh food, medicine and other products that require dry ice storage during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, and cold storage, laboratories, etc.

Technical parameter

Battery life	Up to 60 Days(1 year storage /60 Days useful life) 5 minutes logging interval
Operation Temperature	−90℃~70℃
Measurement Accuracy	±0.5°C@−10~40℃, ±0.8℃@−30~−10℃&40~70℃ , ±1°C@−90~30℃
Resolution	0.1°C
Alarm Limit	Up to 4 individually programmable alarm limits (Alarm threshold and over-temperature trigger time can be customized according to customer needs)
Logging Interval	1 minute –24 hours optional (Default 5 minutes)
Memory Space	Up to 33,000 points
Start Delay	0 minute –24 hours optional (Default 10 minutes)
Start Mode	Manual start
Report Format	PDF/CSV/PDF&CSV(Optional, configured before leaving the factory)
IP Grade	IP65
Battery Type	3.6V Lithium Battery
Connection	USB2.0
Weight	30g
Dimensions	105*40*10mm
Certification	CE, EN12830:2018, RTCA/DO−160G, RoHS

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ZLOG Series

Multiple Use Temperature&Humidity Data Logger

Online Configuration

No need to install software, you can configure recording parameters, compatible with all platforms

LED Indication

Regular self-check and dim light prompts allow, you to know the recording status even in the dark.

Smart Analyzing

By analyzing the best storage temperature, humidity and storage time of various foods, you can obtain the best recording parameters just by selecting the category.

Non-Drive Report

Automatically generate comprehensive and authoritative report that can clearly trace cold chain transportation and food preservation conditions.

Complies with EN12830

Complies with EN12830:2018 (for the transport, storage and distribution of refrigerated, frozen, deep -frozen and quick-frozen food or other goods)

Ultra-wide-angle Display

Use HTN LCD screen, you can clearly view recorded information

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ZLOG-T

Multi-Use Temperature Data Logger

- This product is a multi-use, configurable, and battery-replaceable temperature data logger.
- This logger has an LCD Screen that allows you to monitor and record the temperature data of food, fresh produce, medicine, and other products during storage and transportation
- It is widely used in aspects of warehousing and logistics cold chains, such as refrigerated containers, refrigerated trucks, refrigerated bags, cold storage, laboratories, etc.

Technical parameter

Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃, 5 minutes logging interval
Operation Temperature	-30℃~70℃
Measurement Accuracy	±0.5℃, @-10~40℃, ±0.8℃@-30~-10℃&40~70℃
Resolution	0.1℃
Alarm Limit	Up to 6 individually programmable alarm limits
Memory Space	Up to 33,000 points@Single PDF/CSV report, 25,000 Points @PDF&CSV report
Logging Interval	1 minute -24 hours optional, Default 5 minutes
Start Delay	0 minute -24 hours optional, Default 10 minutes
Start Mode	Manual/Auto start
Report Format	PDF/CSV/PDF&CSV(optional)
IP Grade	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Dimensions	102.5*40*13.5mm
Weight	35.6g
Certification	CE, EN12830:2018, RoHS,

ZLOG-TH

Multi-Use Temperature&Humidity Data Logger

- This product is a multi-use, configurable, battery-replaceable temperature & humidity data logger
- This Logger has an LCD display that can view temperature and humidity data. It is mainly used to monitor and record the temperature and humidity data of vegetables, fruits, meat and other fresh products during storage and transportation.
- It is widely used in aspects of warehousing and logistics cold chains, such as refrigerated containers, refrigerated trucks, refrigerated bags, cold storage, laboratories, etc.

Technical parameter

Battery life	Up to 2 years(1 year storage/1 year useful life)@25℃, 5 minutes logging interval
Operation Temperature	-30℃~+70℃ (0~100%RH)
Measurement Accuracy	±0.5℃ (±3%RH@20~80%RH,±4%RH@other)
Resolution	0.1℃ (0.1%RH)
Alarm Limit	Up to 6 individually programmable alarm limits
Memory Space	Up to 25,000 points@Single PDF/CSV report, 18,000 Points @PDF&CSV report
Logging Interval	1 minute ~24 hours optional, Default 5 minutes
Start Delay	0 minute ~24 hours optional, Default 10 minutes
Start Mode	Manual/Auto start
Report Format	PDF/CSV/PDF&CSV(optional)
IP Grade	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Dimensions	102.5*40*13.5mm
Weight	35.6g
Certification	CE, EN12830:2018, RoHS

ZLOGPro-50T

Multi-Use Temperature Data Logger

- This product is a multi-use, configurable, battery-replaceable temperature logger with an external probe, with a temperature range of -50~+70℃;
- This recorder has an LCD display that can view temperature data, making it an ideal choice for temperature monitoring solutions for ultra-low temperature transportation and those that require frequent temperature recording
- It is mainly used to monitor and record the temperature data of food, fresh food, medicine and other products that require dry ice storage during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, and cold storage, laboratories, etc.

Technical parameter

Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃, 5 minutes logging interval
Operation Temperature	-50℃~70℃(Probe only)
Measurement Accuracy	±1℃@-50~-10℃&40~70℃, ±0.5℃@-10~40℃
Resolution	0.1℃
Alarm Limit	Up to 6 individually programmable alarm limits
Memory Space	Up to 33,000 points@Single PDF/CSV report, 25,000 Points @PDF&CSV report
Logging Interval	1 minute ~24 hours optional, Default 5 minutes
Start Delay	0 minute ~24 hours optional, Default 10 minutes
Start Mode	Manual/Auto start
IP Grade	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Dimensions	109.5*40*13.5mm
Weight	41.4g
Certification	CE, EN12830:2018, RoHS

ZTAG Series

Single-Use Temperature&Humidity Data Logger

Simple and easy to use

The parameters are pre-configured at the factory. You only need to start it with one click and then place it in the target package to monitor the temperature of the environment, which is convenient and efficient.

Non-Drive Report

Automatically generate comprehensive and authoritative report that can clearly trace cold chain transportation and food preservation conditions.

Complies with EN12830

Complies with EN12830:2018 (for the transport, storage and distribution of refrigerated, frozen, deep-frozen and quick-frozen food or other goods)

Thin and light design

As thin and light as a label, it can be easily attached to cold chain logistics

Air Freight Compliance

Complies with RTCA/DO-160G environmental conditions and test procedures for airborne equipment, qualified for air shipment in active status.

ZTAG-T

Single-Use Temperature Data Logger

- The logger has an LCD display that can view temperature data. The parameters are pre-configured and can be started after one-click.It can measure and record the temperature data of fresh food, medicine and other products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc.

Technical parameter

Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃, 5 minutes logging interval
Operation Temperature	-30℃~70℃
Measurement Accuracy	±0.5℃@-10~40℃, ±0.8℃@-30~-10℃&40~70℃
Resolution	0.1℃
Alarm Limit	Up to 4 individually programmable alarm limits（Alarm threshold and over-temperature trigger time can be customized according to customer needs）
Logging Interval	1 minute -24 hours optional（Default 5 minutes）
Memory Space	Up to 33,000 points@Single PDF/CSV report, 25,000 Points @PDF&CSV report
Start Delay	0 minute -24 hours optional（Default 10 minutes）
Start Mode	Manual start
Report Format	PDF/CSV/PDF&CSV(Optional, configured before leaving the factory)
IP Grade	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Weight	30g
Dimensions	105*40*10mm
Certification	CE, EN12830:2018, RTCA/DO-160G, RoHS

ZTAG-TH

Single-Use Temperature&Humidity Data Logger

- The logger has an LCD display, which allows you to view temperature and humidity data. The parameters are pre-configured and can be started after one click
- It is mainly used to monitor and record the temperature and humidity data of vegetables, fruits, meat and other fresh products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc.

Technical parameter

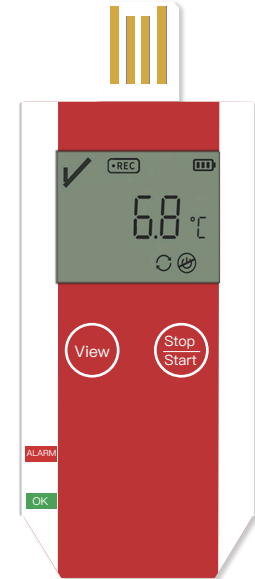|	
Battery life	Up to 2 years(1 year storage / 1 year useful life)@25℃, 5 minutes logging interval
Operation Temperature	-30℃~70℃ (0~100%RH)
Measurement Accuracy	±0.5℃ (±3%RH@20~80%RH,±4%RH@other)
Resolution	0.1℃ (0.1%RH)
Alarm Limit	Up to 4 individually programmable alarm limits (Alarm threshold and
	over-temperature trigger time can be customized according to customer needs)
Logging Interval	1 minute ~24 hours optional (Default 5 minutes)
Memory Space	Up to 25,000 points@Single PDF/CSV report, 18,000 Points @PDF&CSV report
Start Delay	0 minute ~24 hours optional (Default 10 minutes)
Start Mode	Manual start
Report Format	PDF/CSV/PDF&CSV(Optional, configured before leaving the factory)
IP Grade	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Weight	30g
Dimensions	105*40*10mm
Certification	CE, EN12830:2018, RTCA/DO-160G, RoHS

ZTAG-DU

Single-Use Temperature Data Logger

- This logger has an LCD display that allows you to view temperature data.
- It adopts food-grade composite bags and is completely waterproof. With one click, it can monitor and record the temperature data of fresh food, especially seafood, during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, etc.

Technical parameter

|	
Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃, 5 minutes logging interval
Operation Temperature	-30℃~70℃
Measurement Accuracy	±0.5℃@-10~40℃。±0.8℃@-30~-10℃&40~70℃
Resolution	0.1℃
Alarm Limit	Up to 2 individually programmable alarm limits (Alarm threshold and
	over-temperature trigger time can be customized according to customer needs)
Logging Interval	1 minute ~24 hours optional (Default 5 minutes)
Memory Space	Up to 33,000 points@Single PDF/CSV report, 25,000 Points @PDF&CSV report
Start Delay	0 minute ~24 hours optional (Default 10 minutes)
Start Mode	Manual start
Report Format	PDF/CSV/PDF&CSV(Optional, configured before leaving the factory)
IP Grade	IP67
Battery Type	3.0V CR2032
Connection	USB2.0
Weight	23g
Dimensions	85*34*7.5mm
Certification	CE, EN12830:2018, RTCA/DO-160G, RoHS

ZTAG–EU

Single–Use Temperature Data Logger

- As a cost–effective recording tag, it uses a food–grade composite bag and is completely waterproof. After one–click activation, it can be placed in the target monitoring environment to monitor and record the temperature data of fresh food, medicine and other products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc.

Technical parameter

LED Indicator	Green（Recording, OK）, Red（Alarm）, Yellow（Start Delay）
Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃, 5 minutes logging interval
Operation Temperature	–30℃~70℃
Measurement Accuracy	±0.5°C@–10~40℃, ±0.8℃@–30~–10℃&40~70℃
Resolution	0.1°C
Alarm Limit	Up to 2 individually programmable alarm limits（Alarm threshold and over–temperature trigger time can be customized according to customer needs）
Logging Interval	1 minute –24 hours optional（Default 5 minutes）
Memory Space	Up to 33,000 points@Single PDF/CSV report, 25,000 Points @PDF&CSV report
Start Delay	0 minute –24 hours optional（Default 10 minutes）
Start Mode	Manual start
Report Format	PDF/CSV/PDF&CSV(Optional, configured before leaving the factory)
IP Grade	IP67
Battery Type	3.0V CR2032
Connection	USB2.0
Weight	20g
Dimensions	70*33*7mm
Certification	CE, EN12830:2018, RTCA/DO–160G, RoHS

NA Days
Low: NA℃ High: NA℃

Alarm
Delay
OK
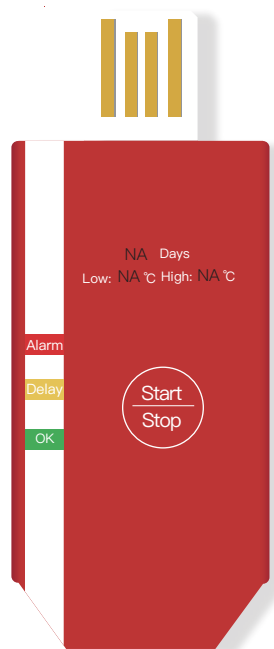
Start
Stop

ZTAG–TL

Single–Use Temperature&Light Data Logger

- The logger has an LCD display, which allows you to view temperature data and light mutation marker. The parameters are pre–configured and can be started after one click
- It is mainly used to monitor and record the temperature and light data of vegetables, fruits, meat and other fresh products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc.

Technical parameter

LED Indicator	Green（Recording, OK）, Red（Alarm）
Battery life	Up to 90 Days(1 year storage / 90 Days useful life)@25℃, 5 minutes logging interval
Operation Temperature	–30℃~70℃ （0–100%RH）
Measurement Accuracy	±0.5℃
Resolution	0.1°C
Alarm Limit	Up to 4 individually programmable temperature alarm limits
	Up to 9 light mutation markers
Logging Interval	1 minute –24 hours optional（Default 5 minutes）
Memory Space	Up to 33,000 points（temperature）
Start Delay	0 minute –24 hours optional（Default 10 minutes）
Start Mode	Manual start
Report Format	PDF/CSV/PDF&CSV(Optional, configured before leaving the factory)
IP Grade	IP65
Battery Type	3.0V CR2450
Connection	USB2.0
Weight	30g
Dimensions	105*40*10mm
Certification	CE, EN12830:2018, RTCA/DO–160G, RoHS

REC
6.8℃
ALARM
OK
View
Stop
Start

ZTAG Series

Single-Use Temperature Indicator

Simple and easy to use

The parameters are pre-configured at the factory. You only need to start it with one click and then place it in the target environment to monitor the temperature of the environment, which is convenient and efficient.

Long Battery-Life

Using ultra-low power consumption chip, up to 2 years of standby time

Low Cost

The extremely efficient design realizes temperature monitoring with ultra-high cost performance and minimizes cold chain costs.

Air Freight Compliance

Complies with RTCA/DO-160G environmental conditions and test procedures for airborne equipment, qualified for air shipment in active status.
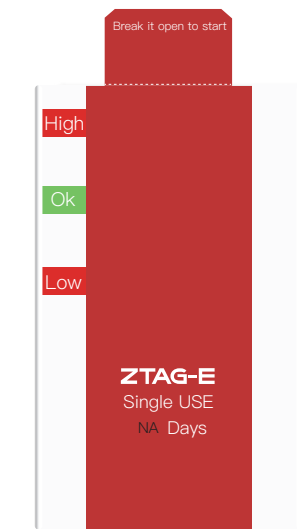
ZTAG-E

Single-Use Temperature Indicator

- This product is a disposable temperature indicator with an extremely simple design and high cost performance. It also uses a food-grade composite bag and is completely waterproof.
- After breaking off the starter strip and starting it, place it in the target monitoring environment to monitor the temperature conditions of fresh food, medicine and other products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc

Technical parameter

LED Indicator	Green（Recording，OK），Red（Alarm）
Battery life	Up to 3 years (1 year storage/2 year useful life)@25℃
Operation Temperature	-30℃~70℃
Measurement Accuracy	±0.5℃@-10~40℃，±0.8℃@-30~-10℃&40~℃70
Monitor Interval	1 minute -24 hours optional（Factory configurable）Default 5 minutes
Alarm Limit	Up to 2 individually programmable alarm limits（The default is 2-8℃, the delay alarm threshold and delay alarm time can be customized）
Start Delay	0 minute -24 hours optional（Default 10 minutes）
Start Mode	Break off the starter strip to start
IP Grade	IP67
Battery Type	3.0V CR2032
Packing	Food grade composite bag
Certification	CE，EN12830:2018，RTCA/DO-160G，RoHS

Break it open to start
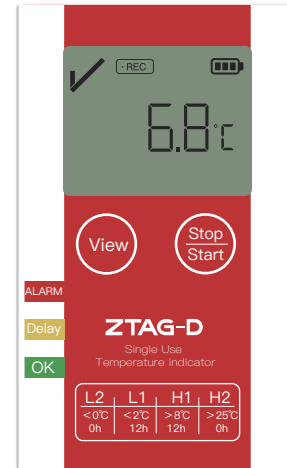
High

Ok

Low

ZTAG-E
Single USE
NA Days

ZTAG–D

Single–Use Temperature Indicator

- This product has an LCD display that can view current monitoring data in real time.
- It adopts food–grade composite bags and is completely waterproof. After one–click activation, it can be placed in the target monitoring environment to monitor the temperature conditions of fresh food, medicine and other products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc

Technical parameter

Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃，5 minutes monitor interval
Operation Temperature	–30℃~70℃
Measurement Accuracy	±0.5°C@–10~40℃，±0.8℃@–30~–10℃&40~°C70
Resolution	0.1°C
Alarm Limit	Up to 4 individually programmable alarm limits（Alarm threshold and over–temperature trigger time can be customized according to customer needs）
Monitor Interval	10 seconds –24 hours optional（Default 1 minutes）
Start Delay	0 minute –24 hours optional（Default 10 minutes）
Start Mode	Manual start
IP Grade	IP67
Battery Type	3.0V CR2032
Packing	Food grade composite bag
Certification	CE，EN12830:2018，RTCA/DO–160G，RoHS

ZTAG–L

Single–Use Ambient Light Indicator

- This product is a disposable ambient light indicatorwith an extremely simple desian and highcost performance. It also uses a food–grade composite bag and is completely waterproof.
- After breaking off the starter strip and starting it, place it in the target monitoring environment to monitorthe light conditions of fresh food, medicine and other products during storage and transportation.
- It is widely used in all aspects of warehousing and logistics cold chain, such as refrigerated containers, refrigerated trucks, refrigerated packages, cold storage, laboratories, etc

Technical parameter

LED Indicator	Green（Recording，OK），Red (Light mutation alarm)
Battery life	Up to 90 Days (1 year storage/90 Days useful life)@25°C 1minutes interval
Operation Temperature	–30℃~70℃
Monitor Interval	30s–10minutes optional (Factory confgurable) Default 1 minutes
Alarm Delay	0 minute–1 hours optional (Default 30 minutes)
Start Delay	0 minute –24 hours optional（Default 10 minutes）
Start Mode	Keep press the button for 5s to start
IP Grade	IP67
Battery Type	3.0V CR2032
Packing	Food grade composite bag
Certification	CE，RTCA/DO–160G，RoHS