Product Overview

DATA LOGGERS
COLD CHAIN / TRANSPORT MONITORING

CONTENTS

Multi-Use Series

Multi-Use Temperature & Humidity Data Logger

Online Configuration

No need to install software, you can configure recording parameters, compatible with all platforms with using URL config.polwax.it

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.

COLD CHAIN MONITORING

PTD50

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 view temperature data. It is mainly used
- 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.

The Polwax PTD50 is a multi-use temperature data logger designed for precise and reliable temperature monitoring across a variety of industries. Whether used for cold chain logistics, storage, pharmaceuticals, or food safety, the PTD50 ensures that critical temperatures are recorded accurately, offering valuable insights for quality control and regulatory compliance.

Application:

Cold Chain Monitoring: Provides accurate temperature tracking during the transportation and storage of temperature-sensitive products such as pharmaceuticals, food, and **chemicals. Warehousing:** Ensures optimal temperature conditions in storage facilities to maintain product quality and safety.

Food Safety: Assists in monitoring food temperatures to ensure compliance with food safety standards. Transportation & Logistics: Suitable for monitoring temperature during the entire transportation process to maintain product integrity.

Technical Specifications

LED Indicator	Green（Recording，OK），Red（Alarm）
Battery life	Up to 2 years（1 year storage / 1 year useful life）@25℃,5 minutes logging interval
Operation Temperature	-30℃～70℃
Measurement Accuracy	±0.4℃， @-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
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，

PRH50

Multi-Use Temperature & Humidity 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 view temperature data. It is mainly used
- 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.

The Polwax PRH50 is a versatile, multi-use temperature and humidity data logger, designed to ensure optimal environmental monitoring for a wide range of industries. This compact, easy-to-use logger provides precise and reliable measurements, making it ideal for applications such as storage facilities, transportation, pharmaceutical, food processing, and HVAC monitoring.

Application:

Cold Chain Monitoring: Ensure temperature and humidity are maintained during the storage and transportation of pharmaceuticals, vaccines, or food products.
Warehouse & Storage: Monitor conditions to maintain quality in warehousing or storage facilities.**HVAC System Analysis:** Evaluate temperature and humidity for building management and
HVAC systems.Food & Beverage: Maintain proper environmental conditions for food safety and quality assurance.

Technical Specifications

LED Indicator	Green（Recording，OK），Red（Alarm）
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	±0.4℃ （±2.5%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 33,000 points
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

PTE50

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 view temperature data. It is mainly used
- 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.

Why Choose the Polwax Multi-Use Temperature Data Logger for -50°C?
The Polwax Multi-Use Temperature Data Logger is your reliable partner in monitoring extreme temperature environments. Its robust design, high accuracy, and multi-use functionality make it the perfect solution for industries where precise temperature control is crucial. Whether it's cold chain logistics or specialized storage, the Polwax data logger provides dependable results to ensure product quality and safety at all times.

Technical Specifications

LED Indicator	Green（Recording，OK），Red（Alarm）
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	±0.4℃
Resolution	0.1℃
Alarm Limit	Up to 6 individually programmable alarm limits
Memory Space	Up to 33,000 points
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

PTE90

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 view temperature data. It is mainly used
- 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.

The Polwax PTE90 is a high-performance, multi-use temperature data logger designed for applications that require monitoring extreme cold temperatures, down to -90°C. Specifically engineered for dry ice applications, the PTE90 is ideal for ensuring the safety and quality of sensitive products during transportation and storage, such as pharmaceuticals, vaccines, biologics, and specialty chemicals. Its robust design and precise measurements provide peace of mind for maintaining the integrity of temperature-sensitive goods.

Technical Specifications

LED Indicator	Green（Recording，OK），Red（Alarm）
Battery life	Up to 2 years （1 year storage / 1 year useful life）@25℃,5 minutes logging interval
Operation Temperature	-90℃～70℃(Probe only)
Measurement Accuracy	±0.4℃
Resolution	0.1℃
Alarm Limit	Up to 6 individually programmable alarm limits
Memory Space	Up to 33,000 points
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

P-TRANS 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
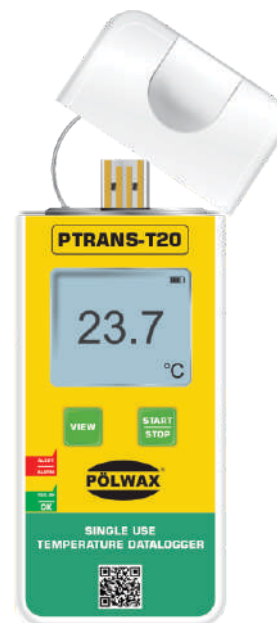
Air Freight Compliance

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

PTRANS T20

Single Use Temperature Data Logger

- This product is a single-use, configurable, and battery-replaceable temperature data logger. This logger has an LCD Screen that allows you to view temperature data. It is mainly used
- 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.
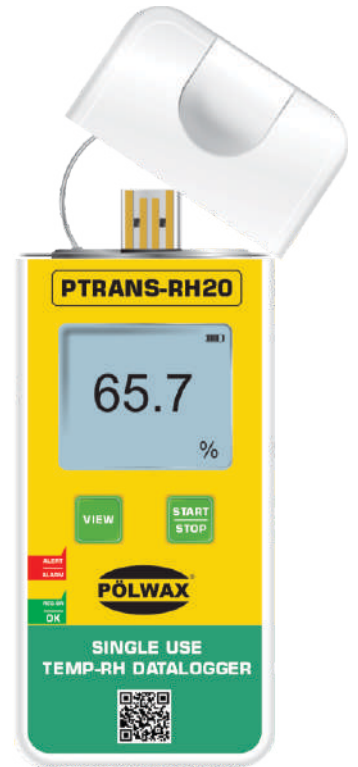
Technical Specifications

LED Indicator	Green （Recording，OK），Red （Alarm）
Battery life	Up to 2 years （1 year storage / 1 year useful life） @25℃,5 minutes logging interval
Operation Temperature	-30℃～70℃
Measurement Accuracy	±0.4℃@-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
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

PTRANS RH20

Single Use Temperature & Humidity Data Logger

- This product is a single-use, configurable, and battery-replaceable temperature data logger. This logger has an LCD Screen that allows you to view temperature data. It is mainly used 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 Specifications

LED Indicator	Green（Recording，OK），Red（Alarm）
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	±0.4℃ （±2.5%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 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	3.0V CR2450
Connection	USB2.0
Weight	30g
Dimensions	105*40*10mm
Certification	CE，EN12830:2018，RTCA/DO-160G，RoHS

PTRANS TD10

Single Use Temperature Data Logger

- This product is a single-use, configurable, and battery-replaceable temperature data logger.
- This logger has an that allows you to view temperature data. It is mainly used 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.

Application:

Cold Chain Monitoring: Provides accurate temperature tracking during the transportation and storage of temperature-sensitive products such as pharmaceuticals, food, and **chemicals. Warehousing:** Ensures optimal temperature conditions in storage facilities to maintain product quality and safety.

Food Safety: Assists in monitoring food temperatures to ensure compliance with food safety standards. Transportation & Logistics: Suitable for monitoring temperature during the entire transportation process to maintain product integrity.

Technical Specifications

LED Indicator	Green （Recording，OK），Red （Alarm）
Battery life	Up to 2 years （1 year storage / 1 year useful life）@25℃,5 minutes logging interval
Operation Temperature	-30℃～70℃
Measurement Accuracy	±0.4℃@-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
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

PTRANS T10

Single Use Temperature Data Logger

- This product is a single-use, configurable, and battery-replaceable temperature data logger.
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Application:

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Technical Specifications

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	±0.4℃@-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
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	70*33*7mm
Certification	CE，EN12830:2018，RTCA/DO-160G，RoHS

P-trans 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.

PÖLWAX ®

POLWAX Group has got an experienced, highly-qualified project team conducting extensive R&D operations. Owing to that, goods holding the POLWAX brand feature customer-tailored flexibility and meet requirements of various industries.

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