HDT-10CC TEMPERATURE DATA LOGGER



Single use, self contained, -30 to +70°C cold chain logger supplied in a re-seal IP65 heavy duty, see through plastic pouch.

Simple custom setup / start options and non tamper PDF results table







Full temperature logging from start of cold chain to delivery







Thermosense

Battery Button Cell Location (CR2032)

Cold Chain PDF Logger

3 Easy steps to have a tamper proof thermal audit trail of your products through your temperature critical supply chain process

Step 1) Set the logger up on a Windows ™ based PC

Step 2) Place the Logger in the IP65 pouch with your temperature critical delivery

Step 3) Retrieve your Logger at the delivery site, plug in to any Windows [™] based PC and down load your tamper proof PDF Data, PDF Calibration Certificate, PDF Manual

Take the logger out of the IP65 re-sealable pouch and plug it into your USB port on any Windows TM based PC

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General options			

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Downloads	calibration certificate.pdf	23/04/2015 16:46 23/04/2015 16:46	Adobe Acrobat D Application extens	4 KB 108 KB	
Libraries Documents Music	Manual.pdf	23/04/2015 16:46 23/04/2015 16:46	Adobe Acrobat D Application	213 KB 48 KB	

Step

Select from looking at the calibration certificate, the manual or the PDF configuration tool

Calibration Certificate

This logger has been designed as a single-use device to remain within its specifications for the life of the product and does not require future accuracy adjustments.

We certify this logger listed below has been manufactured and tested for calibration accuracy to meet the published specifications.

This calibration testing was performed in accordance with national system guidelines of ISO/IEC Guide 17025. Our Calibration Standards instruments are traceable to NML/ROC and NIST/USA or other countries Standards.

Product: Single Use PDF Temperature Datalogger

 Serial Number:
 1630669

 Lot MFG Date:
 21 Mar. 2016

 MFG lot#:
 1602287

 Firmware version:
 V5.5

 Sensor type:
 NTC type thermistor, 833ET-1S87P-70370

 Measuring Range:
 -30°C to 70°C (-22~158°F)

 Accuracy:
 +/-0.5°C

Product Test Criteria

Test point	Test temperature	Accepted tolerance	Test result
1	-10.7°C	+/-0.5°C	Pass
2	25.5°C	+/-0.5°C	Pass
3	47.4°C	+/-0.5°C	Pass

Calibration Reference

Device	Model	Certificate No.	Uncertainty of measurement
Digital Multimeter	Agilent 34401A	201309106711	0.10hm
Thermometer	Uei DT200	RGcp2014-0016	+/-0.2°C

Date of calibration: 21 Mar. 2016 Inspector number: 130004

On board calibration certificate validates the logger

Instruction Manual

Cold Chain PDF Logger

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Introduction

Congratulations on your purchase of this single use cold chain PDF datalogger. This datalogger is specifically designed for monitoring the transportation of products subject to cold chain requirements(GDP). Temperature readings is saved throughout the entire duration of the measurement program.

This datalogger is equipped with flexible programming function. Measurement report output is implemented via PDF file, no software and no USB driver are required to be installed.

Read through the instruction manual before using this logger. The logger is calibrated before shipment.

- USB2.0 plug & play connector. USB driver is not required. (2) LED indicator: Low/High: Red LED blinks when the measuring set limit value is exceeded. OK: Green LED blinks triple every 5 seconds when logger is in standby mode but not yet be started to log readings. When logging function is started, green LED blinks every 2 seconds Low bat. symbol :Red LED blinks every 2 seconds when battery power is too low to maintain an accurate logging. ③ Accurate NTC thermistor for temperature measuring. ④ Pre-installed CR2032 battery (5)START/STOP kev:
- After the logger is programmed, press "START" key for 2 seconds to start the logging.

To stop it, press "STOP" key for 2 seconds. (6)MARK key:

To place a bookmark manually during the delivery transition, press MARK key. You will

see time stamps on generated PDF report.

⑦ IP65 zipped plastic bag

Open to program the logger and well seal it before leaving the logger in shipping container.

Operation

NOTE:

 Adobe Reader software is required.
 Please program the logger and generate the PDF report under room temperature.
 For example: If the logger is taken out from -30 °C freezer, please leave it in air for few minutes before plugging into PC to generate PDF report.

3. The programming execute is designed as *.exe format.

Step1 Configuring the data logger Anytime before the logging is started, the logger can be programmed several times. If the logger is locked by password after first configuration, password will also be required to program the logger again. - Connect the data logger to a PC via the USB port.

- The logger status LEDs blink for two runs.
- Window Automatic playback is displayed.
- Click on Open folder to view files.
- Open the file "PDF Logger Configuration Tool. exe".
- The default language is English, you may change it to German, French, Italian or Spanish per your need. The generated PDF report will be identical to the language you choose.

To review the instruction manual, you may click "Manual" to open the manual PDF file.
To check the calibration report of the logger, you may click "Certificate" to open the corresponding file.

-The definition of each programmable

parameters are:

★Sampling rate

Select the sampling interval you need from 30 seconds to 2 hours.

★ Start delay

Select the start delay from 0 min to 2 hours. For example, if the delay time is 5 mins and sampling rate is 5 mins means the real time to activate the logging function is 5 mins after

Step 1

Thermosense

you pressing the START key so the first data is logged 10 mins after pressing START key.

★Temp. Unit

Select the temperature displayed unit you want to see on PDF report. It can be Celsius or Fahrenheit.

- ★Password
- The password security function is default as off. You may enable it and input at most 16 characters (alphabets or numbers) to prevent an unauthorized re-programming.
- ★Company Name

Your company name will be displayed on PDF report as title.(Max. 20 characters) ★Alarm types

No matter what alarm types is picked up, the LED will not stop flashing once it is triggered as ON even if the measured value later returnes to normal range. <u>Single</u>: a LED alarm is triggered immediately when the measured value exceeds the alarm threshold.

<u>Cumulative</u>: a LED alarm is not triggered when the measured value exceeds the alarm threshold, but only once the overall average value during alarm delay duration exceeds the alarm threshold.

Disable: No LED alarm function during the logging process ★Alarm delay The preset alarm delay time for single alarm type is always zero. The adjustable alarm delay time for cumulative type is 5 min to 2 hours. ★Alarm Limits Select the alarm threshold value. For example, if choosing 2~8°C means the measured value below 2°C or above 8°C will trigger the LED indicator. To summarize, to activate a LED flashing when 30- min average value of hazardous alarm delay period is higher than 8°C, please program the alarm delay as 30 mins, alarm type as cumulative and range as 2~8°C ★Time zone The logger will be auto synchronized to your PC time when you press "Save" to confirm the settings. Any time zone changes during the measurement are not taken into account. The default value of above parameters are:

Sampling rate: 5 min Alarm Type: Single Start delay: 0 min Alarm delay: 0 min Temp. Unit: °C Alarm Limits: 15 – 25°C Password:disable Company Name: blank Language: English

Once all the programming is done, press "Save" to confirm the setting and then you may close the setup window and remove the logger from PC USB port.

- Step2
 Start logging

 -When logger is successfully programmed, the green LED blink triple every 5 seconds to indicate the logger is in standby mode.

 -Please seal the zipped bag well and then press "START" key for two seconds when you want to start the logging.

 -Red LEDs will flash three runs to indicate the logging is activated.

 -During the logging, the green LED will blink every two seconds. If battery power is too low to maintain a normal operation, red LED blinks.
- To place a bookmark manually during the delivery transition, press MARK key.

Step3 Download data

-Press "STOP" key for two seconds to stop the

logging. You may also directly plug logger into PC USB port to stop the logging and generating PDF file. -It takes just few seconds to generate a PDF report. The status LEDs blink while logger is

generating PDF report.

Technical data

PDF data logger, single use Model By NTC thermistor. Temp. measurement -30~70°C (-22~158°F) 0.1°C (0.1°F) Temp. resolution +/-0.5°C Temp. accuracy Logging Type Single Use Sampling points 8192 readings Shelf Life 12 months shelf time -30~70°C (Logging status); room Operating temp. temp.(PC status) Operating RH% Humidity < 80% Storage temp. -40~85°C Storage RH% Humidity <90% Weight ~10g Battery 1PC 3.0V CR2032 (installed before shipment) 30 seconds, 5, 10, 30, 60, 90, Sampling interval 120 minutes 0, 5, 30, 45, 60, 90,120 minutes Start delay Alarm range -20~ -10°C, -10~0°C, 2~8°C, 0~15°C, 0~25°C, 15~25°C or other values Alarm delay 0, 5, 30, 45, 60, 90, 120 minutes Single, Cumulative, Disable Alarm type Operation keys 2 Keys, Start/Stop & Mark LED indicator REC, Low Bat., High /Low alarm Protection class IP65 EN12830, FDA21 CFR Part 11 Directives Operating System Windows only

Step 1

Selecting the manual - full explanation of each option during setup

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A standard auto play window will open up – select the "Open folder to view files" link and start the setup process by selecting the "PDF Logger Configuration Tool.exe option"

Step

PDF Logger Configuration Tool	X	Step 1
● English	Oltalian OSpanish Alarm Type:	HDT-10CC Cold Chain PDF Logger -30°C - +70°C (-22°F - +158°F) Theymosense Low K H
5min 💌	Cumulative	1) Language (5 Languages)
Start Delay: 60min Temp. Unit: Celsius Password: Disable Company Name:	Alarm Delay: 5min Alarm Limit: Others 5 30	 2) Sample Rate (30seconds/5/10/30/60/90/120 minutes) 3) Start Delay (Select 0/5/30/45/60/90/120 minutes) 4) Temp. Unit (°C or °F) 5) Password – (Enable allows you to enter a password) 6) Alarm Type (Disable / Single event / Cumulative) 7) Alarm Delay (Select 0/5/30/45/60/90/120 minutes) 8) Alarm Limit (6 fixed settings or "other" sets your own) 9) Co' Name (20 Character field for ID)
Yusen Demo Sample		
Save	Cancel	N.B. Have links from this page back to
Certificate	Manual	"Certificate" and "Manual"

Main screen for setting up logger.

Select "Save" after setting up and you get this confirmation window that logger has been configured successfully. Press "OK" button to close window

Step 2 HDT-10CC Cold Chain PDF Logger -30°C ~ +70°C (-22°F - +158°F) Thermosense uww.thermosense co.k

Take logger from USB slot. The "Low" "OK" and "Hi" LED's briefly flash, then the "OK" LED flashes 3 times every 5 seconds, to tell operator the logger is "READY", Place the logger back in the bag and seal closed.

Step 2 HDT-10CC Cold Chain PDF Logger -30°C ~+70°C (-22°F ~+158°F) Thermosense www.thermosense.co.kk

To activate the Logger you have to hold the "START" button for 2 seconds.

The LED's will sequentially flash RED 3 times to indicate the logging has started. If you have put a delay in, it will then wait for the delay to time down and then start logging. During logging the "OK" LED blinks Green every 2-3 seconds, telling the operator that this logger is recording the temperature

Alarm Condition LED's

During the log period, depending on setup, if the Alarm criteria has been exceeded, the "Low" and / Or "Hi" LED's will turn RED and will be visible through the bag

Retrieving the Data from Your Logger

The LED's will briefly flash to generate the PDF results folder

Step 3

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Cold Chain PDF Logge

-30°C - +70°C (-22°F - +158°F)

To Stop the Logger either :
1) Press and hold the "STOP" button for 2 seconds and connect to USB or
2) Take the logger out of the bag and insert it into the USB slot directly

An automatic window will open with the additional folder named "year-Month-Date_report " which is the date at which point the logger was stopped and the PDF report generated. (example highlighted in yellow)

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Documents Music	*	Name Files Currently on the Disc (5)	Date modified	Туре	Size
Videos		20150825_report.pdf	25/08/2015 12:48	Adobe Acrobat D	595 KB
		🔁 calibration certificate.pdf	23/04/2015 16:46	Adobe Acrobat D	4 KB
Computer	Ħ	Logger.dll	23/04/2015 16:46	Application extens	108 KB
> OS (C:)	1	🔁 Manual.pdf	23/04/2015 16:46	Adobe Acrobat D	213 KB
CD Drive (F:) PDF	_	PDF Logger Configuration Tool.exe	23/04/2015 16:46	Application	48 KB

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MARK

-30°C - +70°C (-22°F - +158°F)

HDT-10CC

Thermosens

Step 3

7/8/2016

Audit Trail of any Logger is held within one folder :

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This logger has been designed as a single-use device to reasin within its specifications for the life of the product and does not require future accuracy adjustments.

We certify this logger listed below has been samufactured and tested for calibration aboursey to meet the published specifications.

This calibration testing was performed in accordance with national system guidelines of jro/mec Gende 17027. Our Calibration Standards instruments are transable in BG/NGC and HIMT/UEA or other constring Standards.

Product: Single Use PDF Temperature Datalogger

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15 May. 2010
1503448
V6.3
MUU type Thereistor, \$33MT-1887D-7037D
-30*C to 70*C (-22-158*F)
4/-#-8*C

Product Test Criteria

Tast point	Tast. temperature	Accepted tolerance	Toot secult
1	-10,T*C	+/+0.5*C	Pese.
- A -	2618FC	+/-0.EFC	Page
	47.420	4/-0.510	FASE

Calibration Reference

Dentane	mode3	Certificate No.	Directality of measurement
Digital Multiméter.	Agilant 144015	201209204731	0.100m
Thermoneter	101 D7100	B0:p2014-0014	+/-0.2*0
Date of calibration:	11 May. 2018		
Inspector numbers 130	014		

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7/8/2016

HDT-10CC TEMPERATURE DATA LOGGER

- ▶ Single Use, Self Contained, -30 to +70°C Cold Chain Logger.
- Simple Custom Setup / Start Options and Non Tamper PDF Results Table
- ► Windows TM PC required
- Adobe Reader Software required (Free Download from web)

