Cryopak
a TCP Company

Data Loggers

iMINI USB *pdf*

The iMINI USB *pdf* single trip data logger generates a comprehensive PDF report without the need for proprietary software or interface. It comes pre-programmed; just press the start button and go. It is data logging made easy.

Features

- Plug & Play single trip data logger
- No special software; data automatically opens as a PDF
- Preprogrammed to customer specifications
- Compact profile; weighs less than 14g
- Contained in waterproof pouch
- Large memory capacity; 7928 readings
- Five LEDs provide instant status
- 21 CFR Part 11 compliant

Four Alarm Thresholds

Now with expanded alarm thresholds, users are able to see a warning of temperature variances using the low and high settings as well as catastrophic levels with low low and high high settings, ensuring safe transport of perishable cargo.

Certifications:

TOO COLD

OK

TOO HOT

bsi.

21 CFR Part 11

CE
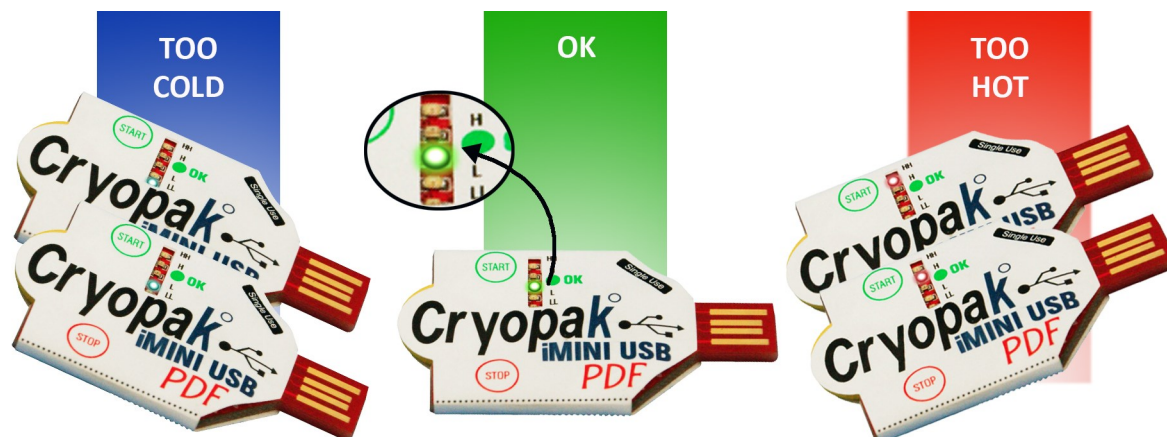
NIST Traceable

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United States

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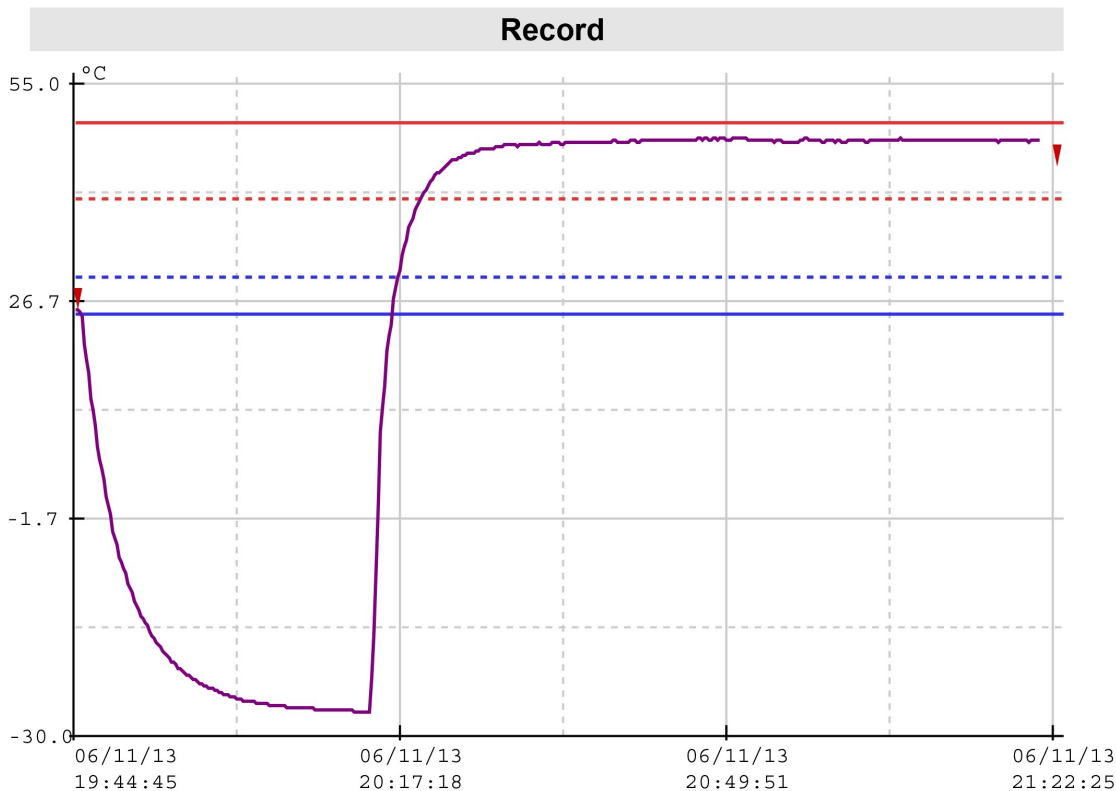1 rue Berthelot
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V.414

cryopak.com

cryopak PROTECTED

Specifications

Description	Specifications
Product Code	MS-ST-S-8 MS-ST-S-8-P (Pharma Compliant)
Memory Options	8K, 7928 readings
Program Interval	5 seconds to 17 hours
Time Accuracy	±1 hour per year
Sensors	Internal
Temperature Range	-40 ^{o}C to +80 ^{o}C (-40 ^{o}F to +176 ^{o}F)
Temperature Accuracy	±0.5 ^{o}C (-40 ^{o}C to -10 ^{o}C), ±1 ^{o}F (-40 ^{o}F to +14 ^{o}F); ±0.3 ^{o}C (-10 ^{o}C to +80 ^{o}C), ±0.6 ^{o}F (+14 ^{o}F to +176 ^{o}F)
Resolution	0.1 ^{o}C (0.1 ^{o}F)
Sensor Response Time	T90 of 5 minutes in moving air
LCD Operating Range	N/A
Alarm Thresholds	4 thresholds; 2 red LEDs, 2 blue LEDs
Alarm Configuration	High high, high, low & low low
Bookmark	Yes, maximum 8
Preprogram Option	Factory programmed
Start Option	Push button
Auto Restart	N/A
Start Delay	Yes, 1 minute to 99 days
Stop Option	Yes, stop button (can be disabled)
Size	68x37x5mm (without sleeve); 81x52x5mm (with sleeve)
Weight	14 grams
Case Material	Plastic sleeve
Battery	3.0V
IP Rating	IP 65
Warranty	1 Trip
Calibration	3pt NIST traceable built into PDF (MS-ST-S-8-P only)
Accuracy Certificate	Upon request
Other Certification	ISO9001:2008, CE, RoHS
Battery Life	1 Year
Interface	USB
Software	ConsolePlus
Default File Format	PDF, TXT, CVT & CSV
Data Export	TXT, CSV, CVT & PDF
Security	All files/data in the logger are read only (write protected)

ESCORT DATA LOGGERS, Inc.
Simple and Smart

LL L   H HH

MS-CD-300-8545
21:22:45 06/11/2013

Device specification

Product code	MS-ST-S-8-P
Serial Number	MS-CD-300-8545
H/W Version	Ver_2_08
Trip Remaining	No
Description	Cryopak Verification Tech.
Battery	100%
Original time zone	UTC: -1
Start	06/11/2013 19:44:45
Finish	06/11/2013 21:22:25/C
Start Delay	0m
Interval	10s
Readings	587
Temperature Range	-40 to +80 °C
High High Alarm	50.0 °C
High Alarm	40.0 °C
Low Alarm	30.0 °C
Low Low Alarm	25.0 °C

Record

| 06/11/13 19:44:45 | 06/11/13 20:17:18 | 06/11/13 20:49:51 | 06/11/13 21:22:25 |

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Statistics

Highest	48.0 °C
Average	26.2 °C
Lowest	-26.8 °C
High High Alarm	Enabled
High Alarm	Activated
Low Alarm	Activated
Low Low Alarm	Activated

Out of specification

Above High High Alarm	00h00m00s
Above High Alarm	01h03m20s
Below Low Alarm	00h32m20s
Below Low Low Alarm	00h31m10s

21 CFR part 11 Compliant

Security #	D285
ID-User name	#12-Saak Dertadian

Traceable Accuracy Certificate

Certificate No	TT-MS-CD-300-8545		
Certificate Date	06/11/2013		
Certificate Validity	One Year or One Trip		

Reference	58.79°C	25.07°C	-19.53°C
Logger	58.79°C	25.30°C	-19.10°C
Variance	0.00°C	0.22°C	0.44°C
Pass / Fail	**Pass**	**Pass**	**Pass**

S Range Temperature range: (-40°C to +80°C)   Resolution: 0.1°C
Traceable Accuracy: ±0.5°C (-40°C to -10°C), ±0.3°C (-10°C to +80°C)

This product is certified using standards traceable to NIST. It has been tested and validated according to Cryopak's Standard Operating Procedures following guidelines set forth in ISO9001:2008.
All temperatures are in degrees Celsius. These results do not incorporate the tolerance of the sensor.
The associated uncertainty is 0.2