CVT
Cryopak Verification Technologies

iMiniUSB PDF

- Plug & Play single trip data logger
- No special software required
- Pre-programmed to customer specifications
- Compact profile; weighs less than 14g
- Large memory capacity
- Long battery life
- 7 LED indicators
- Waterproof pouch

CERTIFICATIONS

$C\epsilon$	**21 CFR Part 11**	**RoHS** Compliant	**ISO 9001:2015**

Product Specifications *(continued back)*

Logger	
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°C to +80°C (-40°F to +176°F)
Temperature Accuracy	±0.5^{o}C (-40°C to -10°C), ±1°F (-40°F to +14°F); ±0.3^{o}C (-10°C to +80°C), ±0.6^{o}F (+14°F to +176°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

iMiniUSB PDF

Product Specifications *(continued from front)*

Logger

Case Material	Plastic sleeve
IP Rating	3.0V
Resolution	IP 65
Warranty	1 trip

Certification and software

Calibration	3pt NIST traceable built into PDF (MS-ST-S-8-P only)
Certificates	ISO9001:2008, CE, RoHS
Battery Life	1 Year
Software	ConsolePlus
Default File Format	PDF, TXT, CVT & CSV
Data Export	TXT, CSV, CVT & PDF

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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

55.0 °C
26.7
-1.7
-30.0
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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LL L H HH

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

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

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