Cold Chain Solutions

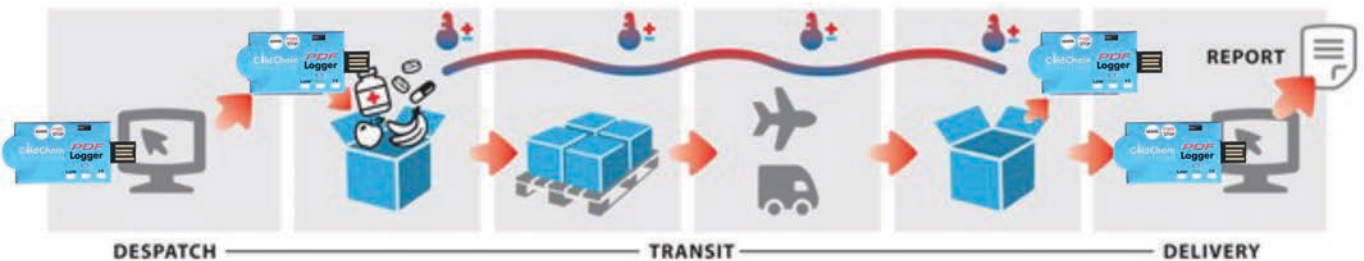# *PDF* USB Temperature Datalogger Model 88182 (Single Use)

Easily monitor the temperature of your cold chain process and store up to 8192 readings with this single-use USB data logger. No additional software or USB drivers are required to program the data logger as they are all contained within the unit. Simply plug the logger into a USB port of your computer, run the software to set parameters such as sampling interval, start delay and alarms, press the start key and place the logger into its IP65 pouch and then into the area to be monitored. Once completed, press the stop key, plug the logger back into your computer and a PDF report of results will be generated automatically. An instruction manual and manufacturer's calibration certificate are also embedded in PDF format on each data logger.

DESPATCH ——————— TRANSIT ——————— DELIVERY

Technical Details	
Temperature Range	NTC thermistor, -30°C to +70°C (-22°F to +158°F)
Temperature Resolution	0.1°C (0.1°F)
Temperature Accuracy	±0.5°C
Logging Type	Single-use
Sampling Points	8192 readings
Shelf Life	12 months
Operating Temperature	-30°C to +70°C (whilst logging), room temperature whilst in computer
Operating RH%	Humidity < 80%
Storage Temperature	-20°C to +50°C (-4°F to +122°F)
Storage RH%	Humidity < 90%
Battery	Internal 3.0V CR2032 (non-replaceable)
Battery Life	~12 months (depending on sampling rate)
Sampling Interval	30 seconds, 5, 10, 30, 60, 90, 120 minutes
Start Delay	0, 5, 30, 45, 60, 90, 120 minutes
Selectable Alarm Range	-20°C to -10°C, -10°C to 0°C, +2°C to +8°C, 0°C to +15°C, 0°C to +25°C, +15 to +25°C or Manual Alarm Range
Alarm Delay	0, 5, 30, 45, 60, 90, 120 minutes
Alarm Type	Single event, cumulative, disable
Operation Keys	2 keys: Start/Stop and Mark
LED Indicators	REC, Low Bat., High Alarm, Low Alarm
Connection Interface	USB 2.0
Certifications	EN12830, FDA 21 CFR part 11, RoHS compliance
Dimensions (unpouched)	73mm (L) x 33mm (W) x 2.5mm (D)
Dimensions (pouched)	105mm (L) x 51mm (W) x 2.5mm (D)
Weight	~13g

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 BNL/HOC and NIST/USA or other countries standards.

Product: Single Use PDF Temperature Datalogger

Serial Number: 1690353
Lot MFG Date: 15 Aug. 2016
MFG lot#: 1607182
Firmware version: V5.5
Sensor type: NTC type thermistor, 8315T-1687P-70170
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	201303300711	0.10hm
Thermometer	Uei DT200	RDop2014-0016	+/-0.2°C

Date of calibration: 15 Aug. 2016
Inspector number: 330604

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