



Vaccine Temperature Data Logger

REF 570-2722

INTERNAL (INT) Sensor located inside the Display Unit measures Room Temperature



EXTERNAL (EXT) Bottle Temperature **?** Sensor to be place in Refrigerator or Freezer

FEATURES:

- High accuracy
- 24 million readings Max 170 files (.csv)
- Internal (ambient) and External (fridge/freezer) sensors reading display
- Minimum and maximum reading memories
- Low and high alarm limits setting
- · Flashing light alarm indicator
- · °C or °F scale
- Real time display
- · Waterproof external sensor
- · Low battery indication
- Removable SD memory card or USB interface for data retrieval
- · Optional external power supply
- · Flip out desk stand

Starting and then stopping the logging function (DATA LOGGING ON / OFF) creates a single .csv file.

The Vaccine Temperature Data Logger has the capacity to record 24 million records in one .csv file or

24 million records divided across a max of 170 .csv files.

It is recommended to let the logger record for as long a period of time as possible for fewer files, or cut and paste files onto other storage to free up space, or install new empty sd card.. so as not to hit the 170 file limit.

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Made in China (Rev.2021/08)



INSTALLATION:

- 1. Unpack the unit and connect the bottle probe.
- 2. Open the battery door and pull out the battery insulation strip
- 3. Peel off display protective sheet.
- 4. Put the bottle sensor inside the fridge or freezer. Let the probe acclimate to the temperature (approx. 1 hour).

OPERATION:

SET TEMPERATURE SCALE

1. Slide [°C/°F] switch to the desired temperature scale.

MINIMUM / MAXIMUM READING MEMORY

- 1. Press [MIN/MAX] to display minimum recorded reading.
- 2. Press the button again to display maximum recorded reading.
- 3. Press the button once more to display normally.
- 4. To reset the memory, Press and hold the button until two bars "----" are displayed.
- 5. Always reset the memory once before taking new readings.

DATE AND TIME SETTING

- 1. Press [SET] and [♥] simultaneously until the display showing the hour format "12H".
- 2. Press [♥] to select 12 or 24 hours time format.
- 3. Press SET to confirm hour format and start year setting. The last two digits of the year will be flashing (Default is "14"). Press [♠] or [♥] to set the current year.
- 4. Press [SET] to confirm year and begin month setting. The month digit will be flashing (Default is "1").
- 5. Press $[\uparrow]$ or $[\Psi]$ to set the current month.
- 6. Press [SET] to confirm month and start date setting. The date digit will be flashing (Default is "1"). Press [♠] or [♣] to set the current date.
- 8. Press (SET) to confirm date and begin hour setting. The hour digit(s) will be flashing.
- 9. Press ↑ or to set the current hour.
- 10. Press [SET] to confirm hour and begin minute setting. The minute digits will be flashing.
- 11. Press $\uparrow \uparrow \uparrow$ or $\downarrow \downarrow \uparrow$ to set the current minute.
- 12. Press [SET] to confirm minute and finish the date and time setting.
 - * Press and hold the [♠] or [♥] button will increase or decrease the value automatically.

LOW / HIGH ALARM LIMIT AND DATA LOGGING INTERVAL SETTING

- 1. Press and hold [SET] until the third row display showing "SEt" then release the button.
 - The INT (ambient) low alarm limit will be flashing (Default is -10).
- Press \uparrow or \downarrow to set the value.
- 3. Press [SET] to confirm INT (ambient) low alarm limit and start high alarm limit
 - The INT (ambient) high alarm limit will be flashing (Default is 50).
- 5. Press [SET] to confirm INT (ambient) high alarm limit and start EXT (fridge/freezer) low alarm limit setting. The EXT (fridge/freezer) low alarm limit will be flashing (Default is -10)
- 7. Press [SET] to confirm EXT (fridge/freezer) low alarm limit and start high alarm limit setting. The EXT (fridge/freezer) high alarm limit will be flashing (Default is 50).
- Press [SET] to confirm EXT (fridge/freezer) high alarm limit and start data logging interval setting. The default value "1" (one minute) is flashing.

- 11. Press [SET] to confirm data logging interval and finish the settings.
- 12. The alarm will sound and the red light will be flashing when the reading is lower or higher than the alarm limit. The alarm sound will stop if the reading falls within the alarm limits or any button is pressed but the LO or HI icon and the red light will still be flashing which indicates that an alarm has been triggered.
- 13. To cancel the icon and red light flashing, press [ON/OFF] once.
 - * Press and hold the [♠] or [♥] button will increase or decrease the value automatically.

ALARM ON/OFF

1. Press [ON/OFF] once to switch the alarm limit off or on.

DATA LOGGING ON/OFF

- 1. Press and hold [SET] to switch on or off the data logging.
- 2. "ON / rEc" display means the data logging is on
- 3. "OFF / rEc" display means the data logging is off

POWER ON/OFF

- 1. Press and hold [ON/OFF] for about two seconds to switch off.
- Press the button once to switch on.

DATA RETRIEVAL

- 1. Hold down [SET] until "OFF / rEc" displays and switch off the unit. Do below step 2 or 3 to get the SD card connected to the Windows or Mac computer.
- 2. Connect the unit to the Windows or Mac computer by the USB cable provided or
- 3. Open the SD card slot cover, push the card to take out the card and install it into the USB SD card reader adapter, then insert the USB adapter into the computer.
- Open the added disk on the computer.
- 5. Open the logging file on the disk to view the logged readings.

NOTE:

- 1. Do not operate the thermometer in the environmental temperature lower than 0°C / 32°F or higher than 50°C / 122°F otherwise incorrect readings or damage to the thermometer may result.
- 2. If the thermometer is not in use for a long period of time then remove the batteries from battery compartment to avoid battery leakage.

SPECIFICATIONS:

DISPLAYSYMBOLS:

Description

2) The reading is out of low range (-30°C)

Sensor short circuit
 The reading is out of high range (70°C)

Measuring range: Internal: 0 ~ 50°C (32 ~ 122°F) Display accuracy: Display resolution: 10 seconds Memory: Memory: Alam limit setting resolution: Default alarm value: Time accuracy: Effective calendar period: Battery life: Battery life: Working ambient temperature: Working ambient temperature: Working ambient temperature: External sensor bottle size: Product size: Product size: Accessories: Memory capacity: 24 million readings Mor 700 card / Max 170 files (.csv) 10 sensor 5D card / Max 170 files (.csv) 21 Sensor short circuit 2) The reading is out: 11 Sensor short circuit 2) The reading is out: 2 The reading is out: 2 Sd SD card installed 12 / 24 hours format user option 2 11 second per day 2 12 / 24 hours format user option Effective calendar period: 2 12 / 24 hours format user option 2 13 second per day 2 14 second per day 2 15 second per day 2 15 second per day 2 16 second per day 2 17 second per day 2 18 second per day 2 18 second per day 2 19 second per day 2 19 second per day 2 10 second per day 2 11 second per day 2 11 second per day 2 12 / 24 hours format user option 2 15 yout, type AA or equivalent x3 pieces 2 About 2000 hours in continuous operation with no alarm triggered 3 your day 1 second per day 4 r:Ec Data logging is on 5 solution to the period of the period o		External: -50 ~ 70°C (-58 ~ 158°F) (bottle probe)		
Display accuracy: Display resolution: Display reading update: Memory: Memory: Memory: Data logging interval: Alarm limit setting resolution: Time accuracy: Effective calendar period: Battery: Battery: Battery: Working ambient temperature: Display is: Display reading update: No probe No p	Measuring range:		Symbol	Descrip
Display resolution: Display reading update: Memory: Memory capacity: Data logging interval: Alarm limit setting resolution: Time accuracy: Time display format: Effective calendar period: Battery: Battery: Battery: Working ambient temperature: Display size: Working ambient temperature: External sensor cable length: External sensor cable length: External sensor bottle size: Product size: Product size: Product size: Product size: Product size: Product size: Display reading update: 10 seconds Probe not connected 11 Sensor spor circuit 11 Sensor sport circuit 22 The reading is out 23 SD card installed r.Ec Data logging is on No probe Probe not connected 11 Sensor sport circuit 22 The reading is out 23 SD card installed r.Ec Data logging is on No probe LLL 11 Sensor sport circuit 22 The reading is out 23 SD card installed r.Ec Data logging is on	Display accuracy:		Z	Low battery voltage
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Memory capacity: 24 million readings		Removable 2G micro SD card / Max 170 files (.csv)		
Data logging interval: Once per minute to once per 720 minutes user option Alam limit setting resolution: Default alarm value: Imme accuracy: 1 second per day 12 / 24 hours format user option Effective calendar period: Battery: Battery life: Battery life: Working ambient temperature: Display size: Display size: Working ambient temperature: Display size: Product 320 - 50°C (32 - 122°F) Display size: Working ambient sensor cable length: External sensor cable length: External sensor bottle size: Product size: 94(W) x 110(H) x 26(D) mm 1.5 volt, type AA battery x3, External bottle sensor x1 Accessories: Mill USB cable 1000mm length x1, 100-240V power adapter x1	Memory capacity:	24 million readings	ННН	
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1.5 volt, type AA battery x3, External bottle sensor x1 Accessories: Mini USB cable 1000mm length x1, 100-240V power adapter x1				
Accessories: Mini USB cable 1000mm length x1, 100-240V power adapter x1	Product size:			
	Accessories:			
Micro SD card USB adapter x1				
		Micro SD card USB adapter x1		

TECHNICAL SUPPORT:

HOTLINE: 1-800-772-4346 OR 973-300-9100