



ACCRT8002

PLEASE NOTE...

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

The ACCRT8002 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.

ACCRT8002 Vaccine Temperature Data Logger

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 and external 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

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.

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").
4. Press [SET] to confirm year and begin month setting. The month digit will be flashing (Default is "1").
5. Press [↑] or [↓] to set the current month.
6. Press [SET] to confirm month and start date setting. The date digit will be flashing (Default is "1").
7. 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 [↑] or [↓] 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 low alarm limit will be flashing (Default is -10).
2. Press [↑] or [↓] to set the value.
3. Press [SET] to confirm INT low alarm limit and start high alarm limit setting. The INT high alarm limit will be flashing (Default is 50).

4. Press [↑] or [↓] to set the value.
5. Press [SET] to confirm INT high alarm limit and start EXT low alarm limit setting. The EXT low alarm limit will be flashing (Default is -10)
6. Press [↑] or [↓] to set the value.
7. Press [SET] to confirm EXT low alarm limit and start high alarm limit setting. The EXT high alarm limit will be flashing (Default is 50).
8. Press [↑] or [↓] to set the value.
9. Press [SET] to confirm EXT high alarm limit and start data logging interval setting. The default value "1"(one minute) is flashing.
10. Press [↑] or [↓] to set the value.
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.
2. Press the button once to switch on.

DATA RETRIEVAL

1. Switch off the unit and 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 SD card USB adapter then insert the USB adapter into the computer.
4. 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:

Measuring range:	External: -50 ~ 70°C (-58 ~ 158°F) (bottle probe) Internal: 0 ~ 50°C (32 ~ 122°F)
Display accuracy:	±0.5°C / ±0.9°F over full range
Display resolution:	0.1°
Display reading update:	10 seconds
Memory:	Removable 2G micro SD card / Max 170 files (.csv)
Memory capacity:	24 million readings
Data logging interval:	Once per minute to once per 720 minutes user option
Alarm limit setting resolution:	0.1°
Default alarm value:	Low: 0°C, High: 50°C
Time accuracy:	±1 second per day
Time display format:	12 / 24 hours format user option
Effective calendar period:	2014 ~ 2099
Battery:	1.5 volt, type AA or equivalent x3 pieces
Battery life:	About 2000 hours in continuous operation with no alarm triggered
Working ambient temperature:	0 ~ 50°C (32 ~ 122°F)
Display size:	70(W) x 64(H) mm
External sensor cable length:	2000 mm
External sensor bottle size:	19.5(Φ) x 40(H) mm PE bottle
Product size:	94(W) x 110(H) x 26(D) mm
Accessories:	1.5 volt, type AA battery x3, External bottle sensor x1 Mini USB cable 1000mm length x1, 100-240V power adapter x1 Micro SD card USB adapter x1

DISPLAY SYMBOLS:

Symbol	Description
[Z]	Low battery voltage
No probe	Probe not connected
LLL	1) Sensor open circuit 2) The reading is out of low range (-30°C)
HHH	1) Sensor short circuit 2) The reading is out of high range (70°C)
:Sd	SD card installed
r:Ec	Data logging is on