

COVID-19 Vaccination Program

Monthly Temperature Monitoring and Thermometer Requirement Guide

Temperature Monitoring Device (TMD)Certificate of Calibration TestingDigital Data Loggers for Ultra-Cold TemperaturesApproved ThermometersUnapproved ThermometersMonitoring TemperaturesMonthly Temperature LogsMonthly Temperature Log Submission Survey ProcessEmergency Use Authorization (EUA) Fact Sheet for Health Care ProvidersAdditional Resources

This guide highlights requirements around temperature monitoring and the different types of thermometers available and identifies those that comply with the Washington State COVID-19 Vaccination Program. Using the correct thermometer or continuous monitoring system to monitor vaccine is critical for protecting your vaccines. It is essential for each vaccine storage unit to have a temperature monitoring device (TMD) to ensure an accurate temperature history that reflects actual vaccine temperatures and vaccine storage is within the correct temperature range.

Temperature Monitoring Device (TMD)

CDC requires a specific type of TMD called a "digital data logger" (DDL) to monitor COVID-19 vaccines. A DDL provides the most accurate storage unit temperature information, including details on how long a unit has been operating outside the recommended temperature range (referred to as a "temperature excursion"). Unlike a simple minimum/maximum thermometer, which only shows the coldest and warmest temperatures reached in a unit, a DDL provides detailed information on all temperatures recorded at preset intervals. Use a DDL) for each vaccine storage unit and each transport unit (emergency or non-emergency). Also, have at least one backup DDL in case a primary device breaks or malfunctions. Providers should use DDLs with the following features:

- Detachable probe that best reflects vaccine temperatures (e.g., a probe buffered with glycol, glass beads, sand, or Teflon[®])
- Alarm for out-of-range temperatures
- Low-battery indicator
- Current, minimum, and maximum temperature display
- Recommended uncertainty of +/-0.5° C (+/-1° F)
- Logging interval (or reading rate) that can be programmed by the user to measure and record

temperatures at least every 30 minutes

• A current and valid <u>Certificate of Calibration Testing</u>

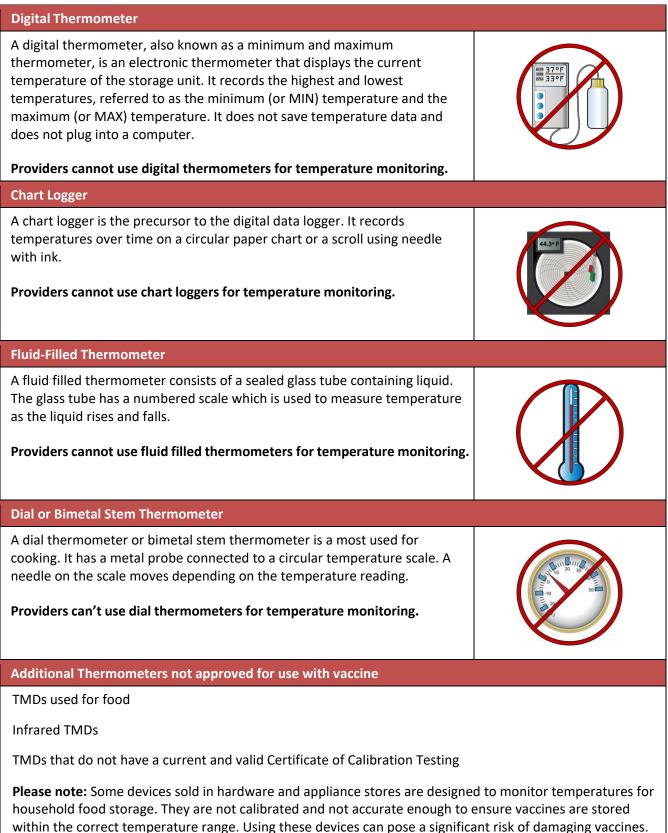
Digital Data Loggers for Ultra-Cold Temperatures

DDLs using a buffered temperature probe provide the most accurate measurement of vaccine temperatures. However, many manufacturers use pure propylene glycol (freezing point -59° C (-74° F)) or a glycol mixture with a warmer freezing point. Ultra-cold freezers store vaccines at temperatures between -90° to -60°C (-130° to -76°F). For accurate ultra-cold temperature monitoring, it is essential to use an air-probe, or a probe designed specifically for ultra-cold temperatures with the DDL.

Approved Thermometers

LogTag Review V Start Start Cor

Unapproved Thermometers



Certificate of Calibration Testing

Calibration testing is done to ensure the accuracy of a temperature monitoring device's readings against nationally accepted standards.

A DDL's Certificate of Calibration Testing should include:

- Model/device name or number
- Serial number
- Date of calibration (report or issue date)
- Confirmation that the instrument passed testing (or instrument is in tolerance)
- Recommended uncertainty of +/-0.5° C (+/-1° F) or less

Calibration testing should be done every two to three years or according to the manufacturer's suggested timeline. Certificate of Calibration Testing should be issued by an appropriate entity, for each temperature monitoring device used to monitor vaccine storage temperatures. TMDs can experience a "drift" over time, affecting their accuracy. This testing ensures the accuracy of the device continues to conform to nationally accepted standards.

Have at least one back-up temperature monitoring device readily available in case a device fails, calibration testing is needed, or vaccine must be transported. Back-up devices must include the same features as primary devices. It is recommended they have a different calibration expiration date to avoid all devices requiring recalibration at the same time.

Monitoring Temperatures

Monitoring vaccine storage equipment and temperatures are daily responsibilities to ensure the viability of your vaccine supply and the safety of your patients. Implementing routine monitoring activities can help you identify temperature excursions quickly and take immediate action to correct them, preventing loss of vaccines and the potential need for revaccination of patients.

Best Practices:

Temperature alarm ranges should be set within .5 to 1 C/F degree of the acceptable temperature range. This allows providers to address fluctuating temperatures before excursion occurs.

Regular checks provide an opportunity to inspect the storage unit, reorganize any misplaced vaccines, and remove any expired vaccines. Check the temperature <u>each time vaccines are accessed</u> in the unit.

Review storage unit temperature readings and review continuous DDL software or website information weekly for changes in temperature trends that might require action.

Storage units must have a digital data logger (DDL) that can continuously monitor temperatures. Staff must check and record temperatures at the beginning of each workday to determine if any excursions have occurred since the last temperature check. Most DDLs measure minimum and maximum temperatures. However, if your DDL does not display minimum and maximum temperatures, the temperature must be checked and recorded at

the beginning and end of each clinic day and you must review the continuous DDL temperature data daily. Monitoring requirements may vary if you are using the manufacturer-provided Pfizer thermal shipper for storage; review the product specific information provided in the toolkit.

You must record temperatures on a temperature log if:

- You do not currently have a DDL with a downloadable temperature log*
- You do not have a DDL with a Min/Max display

When recording include:

- Minimum/maximum temperature
- Date
- Time
- Name of person checking and recording temperature
- Actions taken if a temperature excursion occurred

*DDLs are required to monitor COVID-19 vaccines. If you are unable to obtain a DDL, please check with the COVID-19 Vaccine Team at <u>COVID.Vaccine@doh.wa.gov</u> to discuss options.

Submitting Temperature Logs

Starting April 1, 2022, providers enrolled in the COVID Vaccine Program will be required to submit temperature logs monthly for all units listed on their provider agreement. Providers enrolled in the Childhood Vaccine Program (CVP) still need to follow all the requirements of that program including the temperature log requirements and how those temperature logs are submitted.

Disenrolled providers and providers who have requested to become inactive in the program are not required to upload temperature logs and will not receive the notification emails that temperature logs are due. However, if an inactive provider requests to become active in the program, they will need to send us their most recent temperature logs for their storage units, which we will review before we turn ordering and transfers back on.

Automated emails will be sent out to the Primary Vaccine Coordinator and Backup Vaccine Coordinator listed on their provider agreement for each facility. The initial email will be sent out the 1st of each month letting providers know that temperature logs are due.

Acceptable Temperature Logs	
CDC COVID	CDC has provided temperature logs to use with COVID-19 vaccines.
Vaccine	CDC has created a log for each storage unit type:
Temperature	Refrigerator Temperature Log
logs	(<u>Celsius</u>) (<u>Fahrenheit</u>)
	Freezer Temperature Log
	(<u>Celsius</u>) (<u>Fahrenheit</u>)

	Ultra-Cold Freezer Temperature Log
	(<u>Celsius</u>) (<u>Fahrenheit</u>)
Childhood	Providers enrolled in the Childhood Vaccine Program (CVP) may submit the
Vaccine	temperature logs approved for use in the CVP program.
Program (CVP)	<u>CVP Vaccine Temperature Monitoring Log (wa.gov)</u>
Temperature	
logs	All providers enrolled in the CVP still need to follow all the requirements of that
	program including the temperature log requirements and how those logs are
	submitted.
Digital Data	We are also accepting Digital Data Loggers (DDL)/Temperature Monitoring System
Loggers	Summary Reports with prior review/approval by the program.
(DDL)/Tempera	
ture Monitoring	The summary report will need to be brief (1-2 page) and display the following:
System (TSM)	One month of temperature data with dates displayed.
Summary	• Data points listed on the CDC paper temperature logs. For example, daily
Reports	min/max record or a graph displaying monthly data trend that clearly illustrates
	whether your unit experienced an excursion.
	 If possible, please list the alarms set for each unit.
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Monthly Temperature Log Submission Survey Process

Temperature Log Submission Screens

At the top of the temperature log submission screen, it will list the name of the facility and the month that you are submitting for. There will be a spot for each of the storage units listed in the provider agreement and will include the storage type, storage manufacturer and the thermometer brand/model.

Cold Storage 1

Type: Ultra-Cold Freezer (-60C to -80C)

Manufacturer: <u>McKesson</u>

Thermometer Brand/Model: <u>TSX40086AQ4</u>

Active Unit	Each storage unit will have a question about whether the un during the past month. This field is required.	iit was used to s	tore vaccine
	Have you used this unit during the past month to store at 19 vaccine? * must provide value	ny COVID-	⊖ Yes ⊖ No
	 If this unit was used to store COVID vaccine in the la Selecting yes will open additional questions and a fil 	-	t " Yes ".
	• If this unit was not used to store COVID vaccine in the additional questions will appear for this unit.	ne last month, se	elect " No ". No
Temperature Excursion	For active storage units, please identify if the storage unit e <u>excursion</u> during the past month. This field is required. This storage unit listed on your provider agreement.	·	
		Yes	No
	Was there a temperature excursion during this month for this unit?	\bigcirc	\bigcirc
	If this unit experienced an excursion during the pas	t month, select	" Yes ". This
	will open additional questions about the excursion.		
	in the provided comment field.		
	• If this unit did not experience an excursion during t	he past month,	select " No ".
	No additional questions around temperature excurs	•	
Temperature	If the storage unit experienced a temperature excursion du	ring the past mo	onth, you will
Excursion –	ursion – need to complete the following questions. For steps on addressing temperature		ature
Additional Details	excursions, see the <u>COVID-19 Vaccine Temperature Excursion</u>	<u>on Guide</u> .	
	Indicate if the manufacturer was contacted. This field is req	luired.	
		Yes	No
	Was the manufacturer contacted?	\bigcirc	\bigcirc
	If the storage unit experienced an excursion and the	e manufacturer	was
	contacted, select " Yes ". Please document the detai field.		
	 If the storage unit experienced an excursion and the contacted, select "No". Please note, you are require 		

manufacturer for all temperature excursion to verify that the vaccine is still viable.

Indicate if the Department of Health (DOH) was notified. This field is required.

	Yes	No
Was DOH notified?	\bigcirc	\bigcirc

- If the storage unit experienced an excursion and DOH was notified, select "**Yes**". Please document the details in the provided comment field.
- If the storage unit experienced an excursion and DOH was **not** notified, select "No". Please note, you are required to notify DOH about all temperature excursions.

Indicate if the manufacturer deemed the vaccine viable. This field is required.

	Yes	No
Was the vaccine deemed viable?	\bigcirc	\bigcirc

- If the storage unit experienced an excursion and the manufacturer deemed the vaccine viable, select "**Yes**". Please document the details in the provided comment field.
- If the storage unit experienced an excursion and the manufacturer deemed the vaccine **not** viable, select "**No**". This will open an additional question.

If the vaccine was **not deemed viable** by the manufacturer, the following question will appear. This field is required.

		Yes	No
Was	any vaccine administered?	\bigcirc	\bigcirc
•	If the vaccine was not deemed viable and the	ere were doses admini	stered, select
	"Yes". This will open an additional question.		
٠	If the vaccine was not deemed viable and the	ere were no doses adm	ninistered,

select "No".

	If the vaccine was not deemed viable by the manufacturer and there was vaccine
	administered, the following question will appear. This field is required.
	Estimated number of doses administered
	Enter the total number of doses that were administered.
	Enter any additional details on the temperature log for this unit or all excursion details in the following comment field.
	Comments
	Expand
File Upload	To upload an <u>acceptable temperature log</u> for your unit, select the green " Upload file " link. This field is required.
	Upload File for Storage 1 * must provide value
	An "upload file" window will appear. Click " Choose File " to select and upload the temperature log for that unit.

	Upload file
	Upload File for Storage 1
	Select a file then click the 'Upload File' button
	Choose File No file chosen
	Lupload file (Max file size: 32 MB)
	The file name should appear next to the "Choose File " button. Select " Upload File " to finish.
	Upload file
	Upload File for Storage 1
	Select a file then click the 'Upload File' button
	Choose File Pharmacy R2020 (1).pdf
	▲ Upload file (Max file size: 32 MB)
	These fields will repeat for the number of storage units listed in the provider agreement.
Updates to	You can indicate if you need to update storage units listed on your provider agreement. If
Storage	will reach out to you.
	Do you need to update your storage units on your provider agreement? If Yes, someone from the Provider Support Team will reach out to you.Yes No
Updates to Storage	These fields will repeat for the number of storage units listed in the provider agreement. You can indicate if you need to update storage units listed on your provider agreement. you indicate that changes need to be made, someone from the Provider Support Team will reach out to you. Do you need to update your storage units on your provider agreement? If Yes, someone from the Provider

Additional Comments	If there are any additional details that you would like to share with us, you can add those here.
	Is there anything else you would like to share?
	Expand
Saving	If you need to save your progress and return to it later, select "Save & Return Later" at
Progress	the end of the form. You can enter an email address to receive an emailed link to return
	to the Temperature Log Submission Form.
	Save & Return Later
Submit	At the end of the Temperature Log Submission Form, you will need to click "Submit"
	when finished. Once you click "Submit", your answers for this survey will be complete
	and you will not be able to return and edit answer. Please review your responses before submitting.
	Submit
	Once submitted, you should see the following message:
	Thank you for submitting your temperature logs. The COVID-19 Vaccine Response Team
	will be in touch with you. If you have any questions, please send an email
	to <u>Covid.Vaccine@doh.wa.gov</u> and include your facility pin.

Approval Process

Once a provider has submitted temperature logs, through the Monthly Temperature Log Survey, the Provider

Support Team reviews each temperature log and note whether the submission has been approved, approved but requires follow up/education or not approved. Reasons for not approving a temperature log include:

- Temperature excursion that was not reported on the submission screen
- Temp log not in approved format
- Missing days/data

Provider Support Specialists will work with the provider to resolve issues or provide education.

Pausing Orders/Transfers

If a decision is made to temporarily pause orders/transfers, the provider will be notified beforehand. As soon as the issue(s) has been resolved, we will resume orders/transfers. If a provider is actively working with us to address the issue(s), no pause to ordering/transfers will be placed.

Emergency Use Authorization (EUA) Fact Sheet for Health Care Providers:

- Janssen COVID-19 Vaccine (Johnson & Johnson)
- Moderna COVID-19 Vaccine
- <u>Pfizer-BioNTech COVID-19 Vaccine</u>
- Novavax COVID-19 Vaccine, Adjuvanted

Additional Resources

- Vaccine Management Plan (PDF)
- How to Report COVID-19 Vaccine Wastage guide (PDF)
- <u>COVID-19 Vaccine Temperature Excursion Guide (PDF)</u>
- <u>Centers for Disease Control and Prevention's (CDC) Storage and Handling Toolkit (PDF)</u>
- <u>Centers for Disease Control and Prevention's (CDC) Identification, Disposal, and Reporting of COVID-19</u> <u>Vaccine Wastage (PDF)</u>
- <u>Centers for Disease Control and Prevention's (CDC) Vaccine Administration and Storage and Handling</u> <u>Resources Guide (PDF)</u>
- <u>Centers for Disease Control and Prevention's (CDC) Packing Vaccines for Transport during Emergencies</u> (PDF)

To request this document in another format, call 1-800-525-0127. Deaf or hard of hearing customers, please call 711 (Washington Relay) or email <u>civil.rights@doh.wa.gov</u>.