

PharmaSystems' Temperature Monitoring Solutions

Our product comparison chart highlights key temperature monitoring & data logging features: *The National Vaccine Storage and Handling Guidelines (2015)* as well as many provincial standards outline requirements for refrigerator and freezer temperature monitoring. Refer to the full guidelines, or contact us for assistance.



Thermometers with glycol-filled bottle probes

- Recommended based on the National Vaccine Storage and Handling Guidelines (2015)
- 10 ml & 5 ml glycol bottle probes insulate sensors from rapid temperature changes, ideal for mimicking vaccine temperatures



Thermometers with enclosed temperature buffered ambient sensor probes are ideal for:

- Freezers
- Refrigerators
- Incubators
- Water baths
- Heating blocks

Vaccine Temperature Monitoring Requirements:

- Manual documentation of vaccine temperatures, where the: current, minimum and maximum refrigerator temperatures, and the ambient room temperature must be recorded at the beginning and end of each day (min/max temperatures must be reset after each recording) – log templates are available
- The digital display should be placed on the outside of the refrigerator (Ontario requires a display with a minimum resolution of 0.1° C), with the probe in the centre of the refrigerator (preferably in a vaccine box)
- Bottle probes (bio-safe glycol fluid bottle probes) are recommended for a more accurate reading
- Reset function required - The digital thermometer must be reset after each properly recorded temperature for useful readings
- Thermometers should be set to alarm if temperatures fall or rise to specific values to signify approaching out of range
- Thermometers should be checked for calibration at least annually, and it is recommended they be calibrated within $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$) of accuracy
- Thermometers should have a low battery indicator, and batteries should be replaced every 6 months to 1 year

General Vaccine Storage Requirements:

- Maintain required vaccine storage temperatures
- Hold sufficient inventory
- Have a calibrated temperature-monitoring device inside each storage compartment
- Refrigerator is dedicated to the storage of vaccines only
- Be placed in a secure location away from unauthorized and public access
- Recommended thermometer calibration should be accurate within $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)
- Record refrigerator temperature twice daily
- Contact the local public health office or immunization program if vaccines are exposed to temperature outside the recommended range

Item #	Description	5 ml Probes	10 ml Probes	Ambient Probes	Resolution	Accuracy	Current/Min/Max Temp. (with reset button)	Ambient Room Temp.	High/Low Alarm	Calibration Certificate	Low Battery Icon
10364	 TraceableLive® Wifi Datalogging Traceable® Thermometer		✓		0.01°C	$\pm 0.25^{\circ}\text{C}$	✓		✓	✓	✓
14140	 Traceable® Refrigerator/Freezer Thermometer		✓		0.1°C	$\pm 0.5^{\circ}\text{C}$	✓	✓	✓	✓	✓
14141	 Traceable® Traceable® Digital Humidity/Temperature Meter				1°C	$\pm 1^{\circ}\text{C}$			✓		
14144	 Traceable® Refrigerator/Freezer Thermometer	✓			1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
10366	 Traceable® Dual Thermometer			✓	1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
10367	 Traceable® Refrigerator/Freezer Thermometer			✓	1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
10368	 Traceable® Refrigerator/Freezer Thermometer		✓		1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
10369	 Traceable® Dual Bullet Probe Thermometer			✓	0.1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
17751	 Traceable® Jumbo Thermometer		✓		0.1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
17752	 Traceable® Jumbo Thermometer	✓			0.1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
17750	 Traceable® Jumbo Thermometer			✓	0.1°C	$\pm 1^{\circ}\text{C}$	✓	✓	✓	✓	✓
17988	 Traceable® High-Accuracy Thermometer		✓		0.01°C	$\pm 0.3^{\circ}\text{C}$	✓		✓	✓	✓
17989	 Traceable® High-Accuracy Thermometer, dual probe		✓		0.01°C	$\pm 0.3^{\circ}\text{C}$	✓		✓	✓	✓
17990	 Traceable® High-Accuracy Thermometer, dual probe			✓	0.01°C	$\pm 0.3^{\circ}\text{C}$	✓		✓	✓	✓
19195	 Traceable® Memory-Loc™ Datalogger, single probe		✓		0.01°C	$\pm 0.25^{\circ}\text{C}$	✓		✓	✓	✓
19196	 Traceable® Traceable® Memory-Loc™ Datalogger, dual probe		✓		0.01°C	$\pm 0.25^{\circ}\text{C}$	✓		✓	✓	✓
19197	 Traceable® Excursion-Trac™ Datalogger, single probe		✓		0.01°C	$\pm 0.25^{\circ}\text{C}$	✓		✓	✓	✓
19198	 Traceable® Excursion-Trac™ Thermometer, dual probe		✓		0.01°C	$\pm 0.25^{\circ}\text{C}$	✓		✓	✓	✓
19465	 Fridge-Tag® Traceable® Storage Temperature Monitor with USB			✓	0.1°C	$\pm 0.5^{\circ}\text{C}$	✓		✓	✓	✓