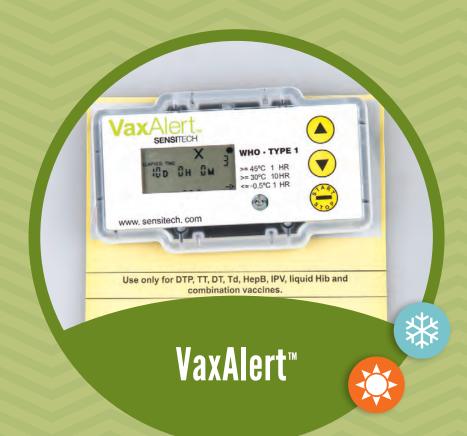




20-DAY
ELECTRONIC
SHIPPING
INDICATORS
(IRREVERSIBLE)
Single use; once the alarm has been activated, the device cannot be used again.





Monitors temperature during shipment of vaccine. Alarm is activated if temperature exceeds or falls below recommended range.

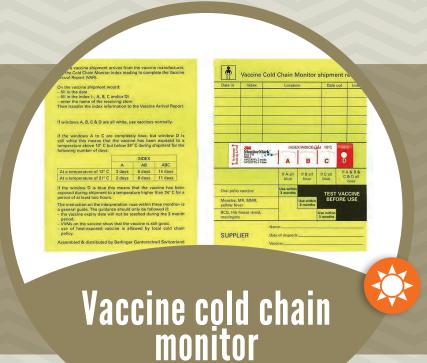






COLD CHAIN MONITOR CARDS (IRREVERSIBLE)

Single use; once the alarm has been activated, the device cannot be used again. Recommended only for international shipments with dry ice.



Monitors temperature during shipment of frozen vaccine.

CHEMICAL TEMPERATURE INDICATORS (IRREVERSIBLE)



Assesses heat exposure of individual vaccine vials or other primary containers of vaccine (used throughout the supply chain).

MAKING SENSE OF TEMPERATURE MONITORING DEVICES

WHO PQS QUALIFIED PRODUCTS

These devices are prequalified for the Expanded Programme on Immunization by the World Health Organization Performance, Quality and Safety (PQS) programme of the Department of Immunization, Vaccines and Biologicals-Quality, Standards and Safety as of July 2013.

KEY:

WARNS AGAINST:





Unless otherwise indicated, all photos: PATH/Patrick McKern.



COLD ROOMS AND/OR FREEZER ROOMS

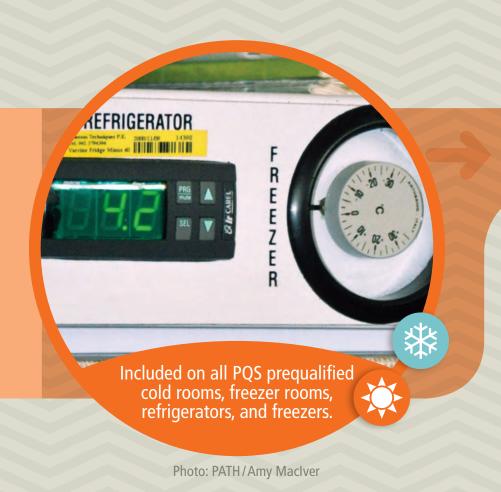




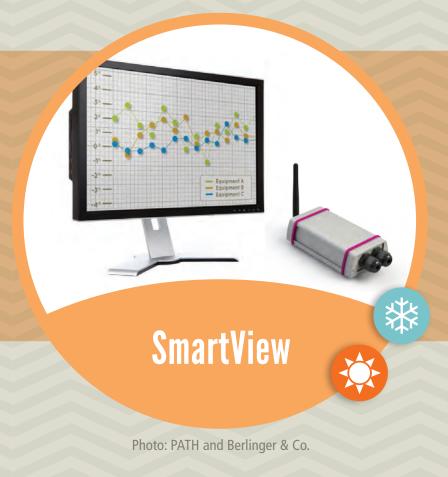


Monitors current temperature; may be used as a backup external temperature display in case of power failures.

INTEGRATED DIGITAL OR DIAL TEMPERATURE MONITORS



REMOTE
TEMPERATURE
MONITORING
SYSTEMS





Monitors temperatures and sends recorded data and alarms to a central server or cellular phone at set intervals.









SUPPLY CHAIN STUDIES

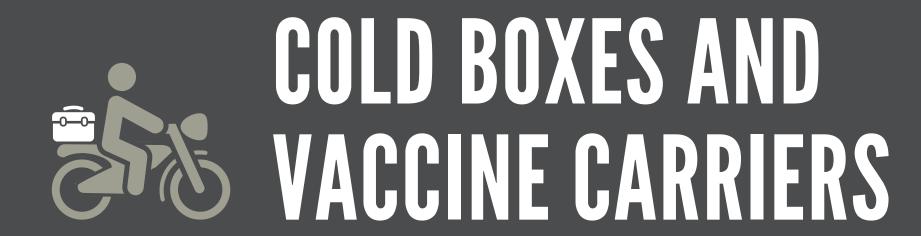
USER-PROGRAMMABLE TEMPERATURE DATA LOGGERS











Monitors current temperature and displays temperature externally.

30-DAY ELECTRONIC TEMPERATURE RECORDERS



Records temperatures at regular intervals. Provides alarms if temperatures fall out of range. Used to determine if equipment is functioning correctly. Can also be used to map cold/freezer rooms.





20-DAY
ELECTRONIC
SHIPPING
INDICATORS

Can be used in cold boxes and vaccine carriers to detect temperature excursions.

Detects freeze incidents. May be used as a backup indicator for potential freeze exposure in cold rooms.



Used for transporting vaccines licensed for use in a controlled temperature chain vaccine to detect temperature exposures above 40°C.







Records temperatures at user-specified intervals; used for supply chain studies and temperature profiles.



