

	Title: UNDP technical requirements for dataloggers		
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INTRODUCTION

This document describes the technical and regulatory requirements applicable to USB dataloggers used to monitor health products with specified storage or transport temperature conditions during shipment on behalf of UNDP.

All temperature-restricted goods must be supplied with USB temperature dataloggers and appropriate dry ice, cold packs, ice packs, wet ice, or other qualified passive cooling media, as determined and qualified by the supplier. These provisions must ensure compliance with the recommended temperature conditions for a minimum of 72 hours.

Boxes containing temperature-restricted items must be shipped and clearly marked, as applicable, i.e., "keep cool (15–25°C)", "cold chain (2–8°C)", or "keep frozen (-20°C)".

Suppliers shall ensure that the recommended temperature is maintained and monitored during storage and transport by including USB dataloggers in all shipments of health products supplied to UNDP, from the supplier's warehouse until the agreed delivery point under the applicable Incoterm.

The minimum number and placement of dataloggers shall be as follows:

Shipment configuration	Datalogger requirement
Boxes prepared with passive cooling media	1 datalogger placed inside each box
Regular boxes (not prepared with passive cooling media) shipped in insulated shipping containers, whether passively or actively temperature-controlled (e.g. insulated containers or reefer containers)	2 dataloggers per container, one placed at the back of the cargo and one at the front of the cargo near the container door
Shipments of regular boxes (not prepared with passive cooling media) on pallets not loaded in containers and transported by air, land, or sea freight	1 datalogger per pallet

Failure to include the required dataloggers in a shipment, or failure to obtain complete temperature records due to incorrect or unsuitable datalogger configuration (e.g. an excessively frequent recording interval resulting in the memory capacity being exceeded before the shipment reaches its destination), may prevent UNDP from assessing whether the required storage and transport conditions were maintained and may therefore result in rejection of the affected products. Where such rejection results from the supplier's failure to include or correctly configure the required data loggers, the supplier shall be responsible for replacing the rejected products.

For traceability purposes, suppliers are strongly recommended maintaining records of the serial numbers of the dataloggers used for each shipment and their exact location, including the carton number in which each datalogger is placed.

USB DATALOGGERS TECHNICAL REQUIREMENTS

The minimum technical requirements for dataloggers are as follows:

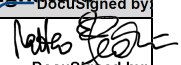
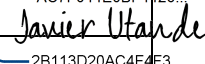
1. WHO prequalified device (refer to WHO Performance, Quality and Safety (PQS) catalogue, category E006)
2. Measures temperature (from -30° to +70°C, with accuracy +/- 0.5°C).
3. Readings to include time and date
4. Single use
5. Direct USB interface, without need for additional cable
6. Automatically creates PDF report when connected to computer.
7. Rapid data download to graph
8. Alarm levels set up before shipping according to manufacturer's storage requirements
9. LCD featuring up to 1 decimal point readings
10. Alarm indication on LCD screen
11. Sampling rate: at least 1 measure per hour (recommended interval: 1 data point every 15 minutes)
12. Push button to activate and stop logging.
13. Easy to understand user's guide and instructions
14. Non-transmitting device

UNDP strongly encourages suppliers to use dataloggers powered by button (coin) cells for transport monitoring. Such configurations may facilitate compliance with current air transport requirements and may reduce marking and documentation obligations where the applicable IATA conditions are met (see current IATA Battery Guidance Document). Suppliers remain responsible for ensuring that the dataloggers selected and the shipment configuration comply with all current applicable transport requirements.

The awarded bidder is required to adhere to UNDP temperature-controlled shipment requirements.

HISTORY OF CHANGES

Version n°	Revision n°	Date	Description of changes
01	00	2024/03/26	Initial Release
02	00	2024/04/25	Correction of typo related to PI Section, from 967 to 970
03	00	2026/08/15	Added requirements on shipment rejection in case of missing dataloggers, traceability of datalogger serial numbers, recording interval and use of 1 datalogger per keep-cool box; editorial review of language and technical terms.

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