



# LIBERO CD

PDF data logger for use in dry ice

## Handling recommendations

### Before using the data logger



### Storing the PDF data logger

A special battery is used for the LIBERO CD that can withstand the stresses of very low temperatures. Both the storage environment and the storage time influence the service life of the battery. We therefore recommend taking the following requirements into account:

#### > Ambient conditions

For storage please note the compliance with recommended ambient conditions of +15 °C to +25 °C and 40 % to 70 % relative humidity.

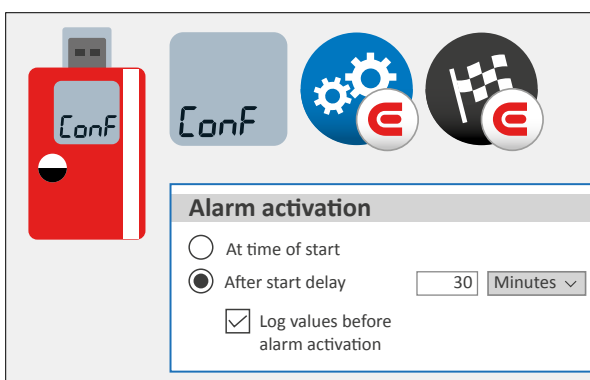
#### > Storage time

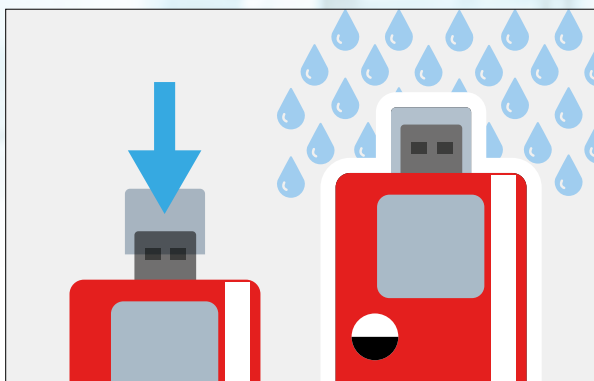
For applications in the low temperature range of dry ice, we recommend using the devices within 6 months.

### Configuring the PDF data logger

(means of liberoCONFIG or LIBERO SmartStart)

We recommend configuring the longest possible start delay, and always in combination with the option "Log values before alarm activation". The reason for this is that it is beneficial for the performance of the battery if it is conditioned by initial activation while still at ambient temperature.





### Attaching the USB protective cap

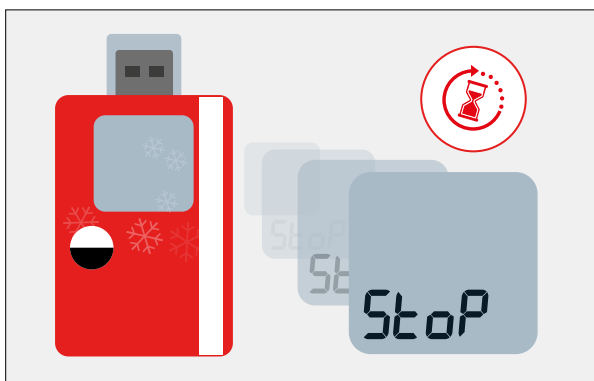
To prevent any condensation from getting into the device during the defrosting phase at the end of transportation, the protective cap on the USB port must be fitted up to the stop.

### On arrival of the shipment



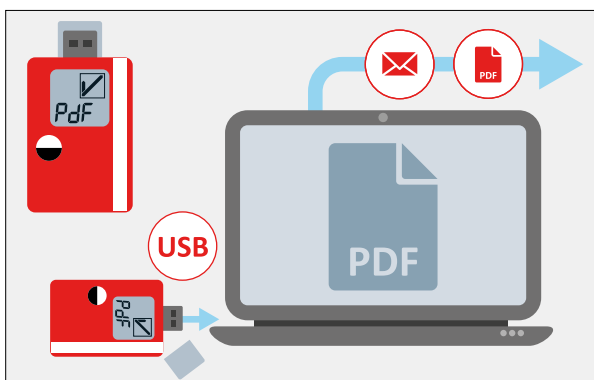
### Stop recording

The data logger should be stopped immediately after removal from the received consignment by pressing the "Stop" button. The display is frozen at this point, so no information can be read.



### Allowing data logger to acclimatize

Give the device a few minutes to adjust to the ambient temperature until the display defrosts again and the information "StoP" becomes legible.



### Read-out of monitoring data

Remove the USB protective cap and plug the data logger into the USB port of a computer to generate the PDF report, for local storage or to forward to selected recipients.