

# LIBERO CE

## Operation Manual





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# 1 Safety Instructions

## Intended Use

LIBERO CE is exclusively for commercial use (“business to business”).

## Battery

Material safety data sheet according to provisions of directive 91/155/EEC and shipping information are available from ELPRO-BUCHS AG. Do not subject the batteries to mechanical stress nor dismantle them. The leaking battery fluid is highly corrosive and can generate severe heat when it comes into contact with moisture or it can ignite fire.

## Environmental Conditions

Temperature	Temperatures exceeding 70°C can damage the battery. For the operation range see specifications on <a href="http://www.elpro.com">www.elpro.com</a> .
Water / Humidity	Device meets requirements of protection class IP54. Only for use in the specified IP protection class, penetrating water or moisture can damage the device.
Mechanical Force	Avoid violent knocks and blows, they can damage the battery (short circuit).
IR and Steam	Infrared radiation (heat) and superheated steam can damage the surface coating of the casing.
Microwave	There is a risk of battery explosion if the device is exposed to microwave radiation.
UV Radiation	Exposure to UV radiation diminishes the stability of the casing.

## Cleaning

For cleaning purpose use a slightly wetted cloth. Do not use thinner, fuel, alcohol or aggressive cleaning detergents, they can damage the casing.

## 2 Quick Start

### Quick Start LIBERO CE

**1 Software Download**  
[elpro.com/software-downloads](http://elpro.com/software-downloads)



**4**



2 sec.

Make Pdf

Start ON Stop OFF

Run ON ✓  
-196 °C

**2**



2 sec.

Press Start

dELAY

Start ON Stop OFF

**5**



USB

PDF

**3**



CRYO  
-196°

+ -

**6**

[elpro.com/liberoce](http://elpro.com/liberoce)



[elpro.com](http://elpro.com)

### 3 System Overview

The LIBERO CE data logger described in this document is a device for temperature monitoring using an external Pt100 probe. LIBERO CE saves the temperature measurements and can generate a PDF report when connected to a USB port on your computer. The PDF report contains all measured values and thus creates visibility and transparency to fulfil GxP requirements. The device is configured using free liberoCONFIG software or by assigning a pre-programmed profile (SmartStart).



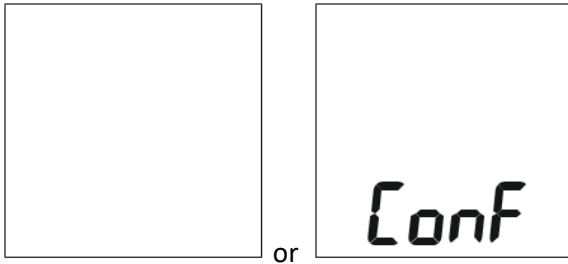
**LIBERO CE with bracket and external probe**

## 4 Device - LIBERO CE

### 4.1 Functionality and Modes

After configuration, the device measures the temperature using the connected external sensor, stores the measured values and evaluates them with regard to the defined alarm criteria. The display indicates the current mode.

In **configuration mode**, the device can be configured with the help of the free software liberoCONFIG. This is visualized on the display as follows:



After the device has been configured, the device can be started by pressing the "Start" button for 3 seconds. The **start mode** is indicated on the display. In addition to starting the device, it can also be reconfigured from the start mode. The device is automatically recognized in liberoCONFIG.

Display:



If a temperature-based or time-based delay has been configured, "delay" appears on the display after the device has been started:

- **Temperature-based delay:** the "delay" will be displayed until the configured temperature threshold has been reached. The device will then automatically switch to the measurement mode (see below).

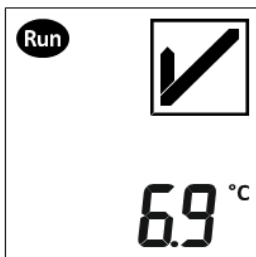


- **Time-based delay:** the display shows the remaining time in minutes, before the device will automatically switch to the measurement mode.

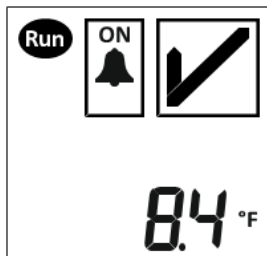


After the delay (if configured) has elapsed, the device switches to **measurement mode**. Depending on the device's configuration, we can distinguish between the following two types of measurement mode.

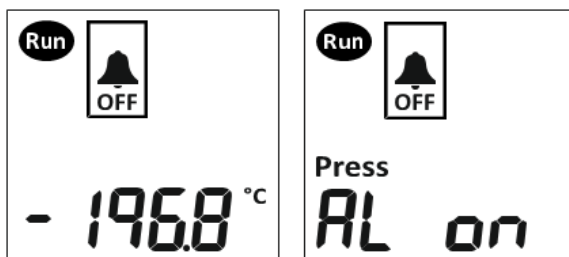
- **Measurement mode without "Alarming ON/OFF" function:** Displays the current temperature value (bottom, if configured), alarm indicator (top right, if configured) and the logging indicator (top left).



- **Measurement mode with "Alarming ON/OFF" function:** displays the current temperature value (bottom, if configured), alarm indicator (top right, if configured), the logging indicator (top left) and the "Alarming ON" status (top center). This state indicates that the measured values are evaluated according to the alarm criteria.



Users who want the benefit of pausing the alarming (e.g. while refilling the liquid nitrogen or while cleaning the refrigerator), can do so by pressing the "Alarming OFF" button on the device. In this case, the display shows the current temperature value (bottom, if configured), alarm indicator (top right, if configured), logging indicator (top left) and the "Alarming OFF" status (top center). Alternating every 2 seconds, the display informs the user that the alarming can be reactivated:



From the measuring mode, without configured "Alarming ON/OFF" function or from the measuring mode with status "Alarming OFF," the device can be stopped by pressing the "Stop" button for 3 seconds.

In **stop mode** there can be two different display states as seen below. Immediately after stopping, "Make PDF" appears. This will only disappear after the PDF report has been created by plugging the device into a USB port. This ensures that the user does not forget to read out the device.



After the device has been read out, "Stop" appears on the display. At this point the device can either be started again (with the existing configuration) or reconfigured.

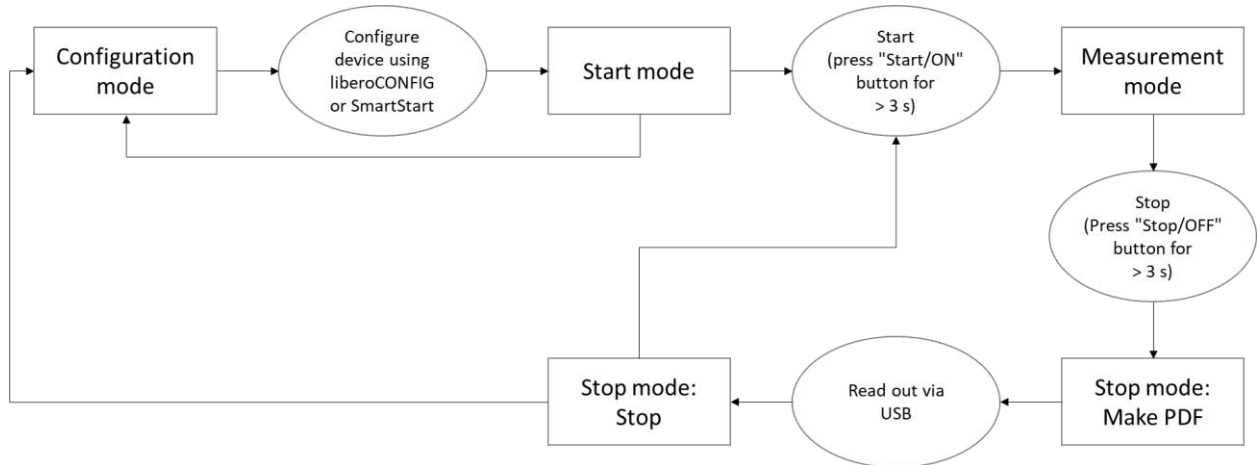




## 4.2 Workflow

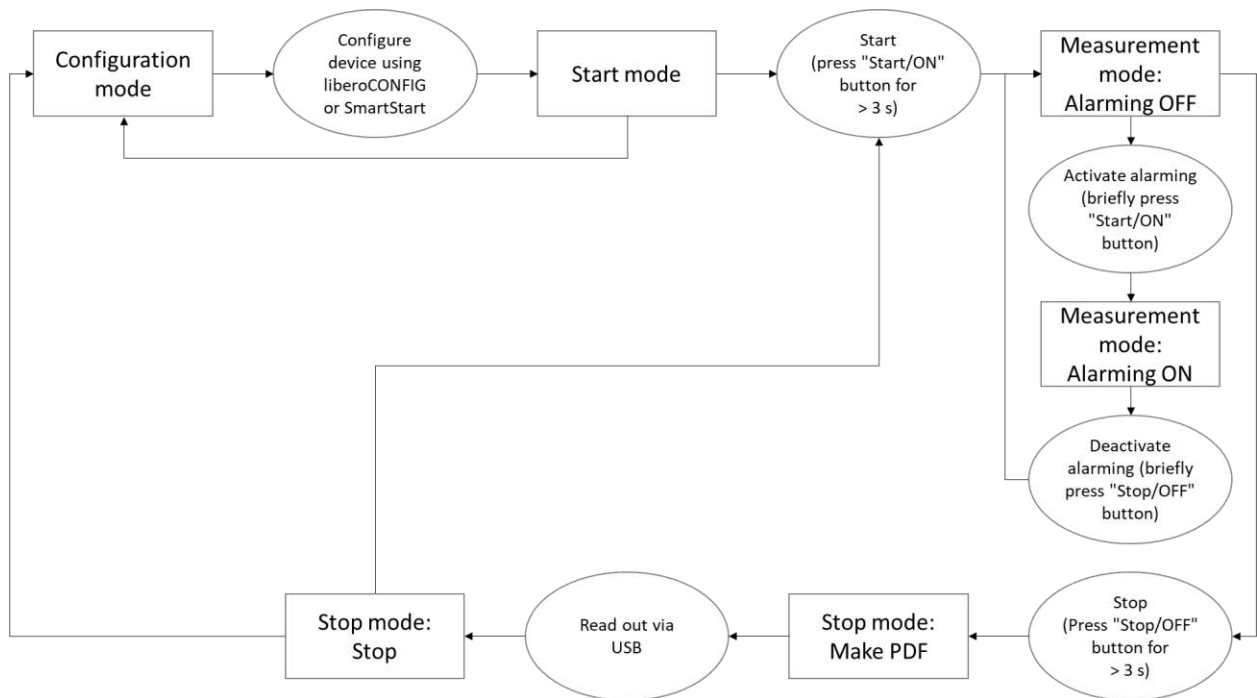
### 4.2.1 "Alarming ON/OFF" function not configured

The following figure shows the sequence of modes if the "Alarming ON/OFF" function has not been configured (see chapter 6.1, section Alarm Conditions).



### 4.2.2 "Alarming ON/OFF" function configured

The following figure shows the sequence of modes if the "Alarming ON/OFF" function has been configured (see chapter 6.1, section Alarm Conditions).





### 4.3 Technical Specification

Type	PDF Logger with USB interface for external Pt100 temperature probe (probe not included)								
Application area	Site Monitoring, Container Monitoring, Cryo Container Monitoring, Dry-ice Container Monitoring								
Recording options and mode	Multiple use: start/stop or loop mode								
Type of probe	Pt100 probe (4-wire measuring technique), max. cable length 3 m (118.1 inch), requires M8 connector								
Measurement range	Measurement range (depending on probe): -200 °C..+400 °C Operating range of data logger: -30 °C..+70 °C								
Measurement accuracy	System accuracy*: <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">± 1.4 °C in the range of -200.0 °C..-100.1 °C (Class B)</td> <td style="width: 50%; border: none;">± 0.5 °C in the range of +25.1 °C..+100.0 °C (Class A)</td> </tr> <tr> <td style="border: none;">± 1.0 °C in the range of -100.0 °C..-50.1 °C (Class B)</td> <td style="border: none;">± 0.7 °C in the range of +100.1 °C..+200.0 °C (Class A)</td> </tr> <tr> <td style="border: none;">± 0.4 °C in the range of -50.0 °C..-10.1 °C (Class A)</td> <td style="border: none;">± 1.1 °C in the range of +200.1 °C..+400.0 °C (Class A)</td> </tr> <tr> <td style="border: none;">± 0.3 °C in the range of -10.0 °C..+25.0 °C (Class A)</td> <td style="border: none;"></td> </tr> </table> *Includes data logger and external Pt100 probe of stated class	± 1.4 °C in the range of -200.0 °C..-100.1 °C (Class B)	± 0.5 °C in the range of +25.1 °C..+100.0 °C (Class A)	± 1.0 °C in the range of -100.0 °C..-50.1 °C (Class B)	± 0.7 °C in the range of +100.1 °C..+200.0 °C (Class A)	± 0.4 °C in the range of -50.0 °C..-10.1 °C (Class A)	± 1.1 °C in the range of +200.1 °C..+400.0 °C (Class A)	± 0.3 °C in the range of -10.0 °C..+25.0 °C (Class A)	
± 1.4 °C in the range of -200.0 °C..-100.1 °C (Class B)	± 0.5 °C in the range of +25.1 °C..+100.0 °C (Class A)								
± 1.0 °C in the range of -100.0 °C..-50.1 °C (Class B)	± 0.7 °C in the range of +100.1 °C..+200.0 °C (Class A)								
± 0.4 °C in the range of -50.0 °C..-10.1 °C (Class A)	± 1.1 °C in the range of +200.1 °C..+400.0 °C (Class A)								
± 0.3 °C in the range of -10.0 °C..+25.0 °C (Class A)									
Measurement resolution	0.1 °C								
Measurement interval	1 to 60 minutes, user configurable								
Memory capacity	75'500 measurement values (equals logging duration of 17 months at 10 minute logging interval)								
Battery life	3 years								
Battery type	Button cell contained in equipment UN3091, exempt from DGR declaration Non-replaceable battery								
Configurable alarms	8 temperature alarm zones with single or cumulative delays, Alarm on MKT, Alarm on duration/run time								
Start-up delay	User configurable based on time or temperature								
Display	Multifunction LCD, size: 22 × 22 mm (0.87 x 0.87 inch), with OK and Alarm indicator								
Certificate	Certificate available via <a href="http://compliance.elpro.com">compliance.elpro.com</a> Optional: Additional customer-specific calibration points according to ISO 17025 standard								
Traceability	Unique ID number (traceable to component level)								
Report	Built-in PDF file generator automatically establishes an evaluation report with embedded data upon connection to a USB port. Complies with the ISO standard 19005-1 Document Management for the long-term preservation of electronic documents (PDF/A) and FDA 21 CFR Part 11. - Customizable report title and filename - Text area for additional information (e.g. shipment information, instructions for recipient, etc.) - Statistics (min/max, average, alarm, alarming on/off) and detailed logger information (ID, configuration, etc.) - Chart visualizing the temperature curve and alarm limits								
Case   dimension   weight   IP Code	ABS plastic material   95 × 41 × 11 mm (3.74 x 1.61 x 0.43 inch), cable tail 85 mm (3.35 inch) including M8 connector   44 g (0.1 lb)   IP54								
Accessories	LIBERO CE stainless steel bracket, variety of Pt100 probes, extension cable with M8 connector								
Conformity	CE   FCC   RoHS   Safe Transport of Chemical Goods   WEEE								
Standards and Guidelines	RTCA DO-160   GAMP5								
Data logger configuration and additional analysis software	liberoCONFIG software to create, store and manage individual settings in a logger profile as well as SmartStart, a liberoCONFIG component allowing a safe and quick application of profiles and additional information to PDF Logger. elproVIEWER software to access and export embedded data of PDF report, for data analysis and comprehensive report features. Both software products can be downloaded at <a href="http://www.elpro.com/downloads">www.elpro.com/downloads</a> . Fully compatible with liberoMANAGER database.								

## 5 External Pt100 Probes

### 5.1 Areas of Application

LIBERO CE can be used for different applications, depending on the sensor.

ELPRO offers standard probes for three main applications:

- Cryogenic shipments and storage
- Dry ice shipments and storage
- Freezer (-25 °C..-15°C, typical) / fridge (+2 °C..+8 °C) / ambient (+15 °C..+25 °C) shipments and storage

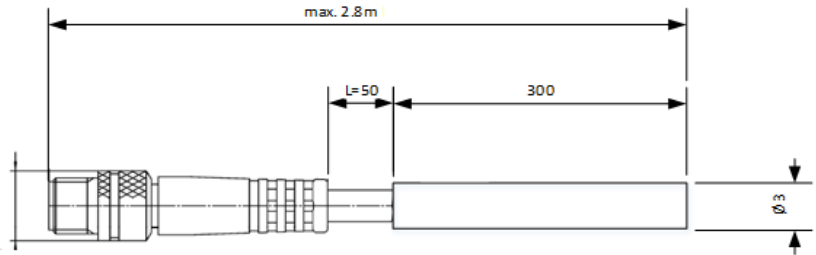
#### 5.1.1 Cryogenic shipments and storage

For cryogenic applications the LIBERO CE is usually mounted directly to the container, or the container lid, using the optional bracket with the sensor leading into the tank. ELPRO offers an easy, turnkey service for mounting the assembly and calibration.

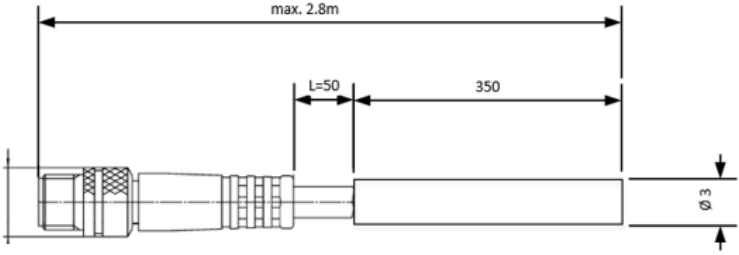


ELPRO offers two standard probes with different probe lengths for this application:

**PRO\_PT100\_ST300D3\_M8\_CRYO (part number 802287)**

Note	Cable with mounted M8 plug (male). Probe can be bent (do not kink) once at room temperature, except for the foremost 3 cm.
Probe length	30 cm
Probe diameter	3 mm
Temperature range of probe	-200 °C...+200 °C
- Temperature range Class A	n.a
- Temperature range Class B	-50 °C...+200 °C
Cable length	0.05 m
Cable diameter	4.0 mm
Litz wire	4x AWG 22
Cable material	Silicon
Cable color	black
Temperature range of cable	bendable in the range between -60 °C...+90 °C
Drawing	

**PRO\_PT100\_ST350D3\_M8\_CRYO (part number 802288)**

Note	Cable with mounted M8 plug (male). Probe can be bent (do not kink) once at room temperature, except for the foremost 3 cm.
Probe length	35 cm
Probe diameter	3 mm
Temperature range of probe	-200 °C...+200 °C
- Temperature range Class A	n.a
- Temperature range Class B	-50 °C...+200 °C
Cable length	0.05 m
Cable diameter	4.0 mm
Litz wire	4x AWG 22
Cable material	Silicon
Cable color	black
Temperature range of cable	bendable in the range between -60 °C...+90 °C
Drawing	



**Pt100 probe for cryogenic applications with M8 connector**

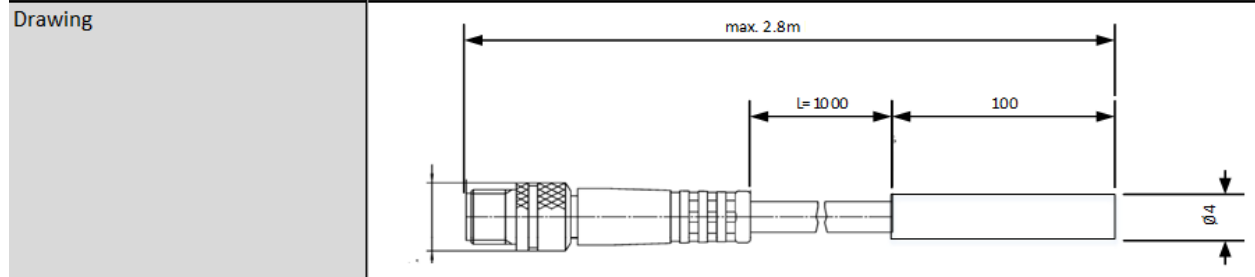
**5.1.2 Dry ice shipments and storage**

Also in dry ice applications, the LIBERO CE is usually attached to the outside of the container using the optional bracket and the sensor leads into the tank. ELPRO offers an easy, turnkey service for mounting the assembly and calibration.

For this application, ELPRO offers two standard probes with a probe length of 10 cm and Teflon cable in different lengths:

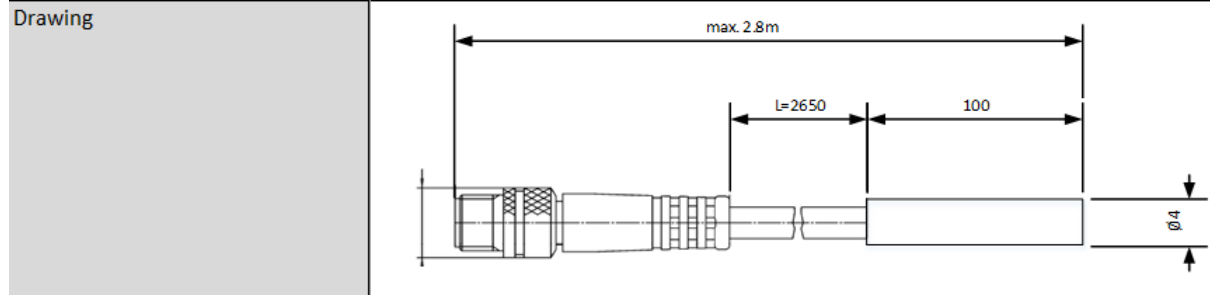
**PRO\_PT100\_ST100D4\_PTFE1\_M8 (part number 802284)**

Note	Cable with mounted M8 plug (male).
Probe length	10 cm
Probe diameter	4 mm
Temperature range of probe	-90 °C...+250 °C
- Temperature range Class A	-30 °C...+250°C
- Temperature range Class B	-50 °C...+250 °C
Cable length	1 m
Cable diameter	3.5 mm
Litz wire	4x AWG 28
Cable material	PTFE
Cable color	white
Temperature range of cable	bendable in the range between -90 °C...+70 °C



**PRO\_PT100\_ST100D4\_PTFE2.65\_M8 (part number 802285)**

Note	Cable with mounted M8 plug (male).
Probe length	10 cm
Probe diameter	4 mm
Temperature range of probe	-90 °C...+250 °C
- Temperature range Class A	-30 °C...+250°C
- Temperature range Class B	-50 °C...+250 °C
Cable length	2.65 m
Cable diameter	3.5 mm
Litz wire	4x AWG 28
Cable material	PTFE
Cable color	white
Temperature range of cable	bendable in the range between -90 °C...+70 °C

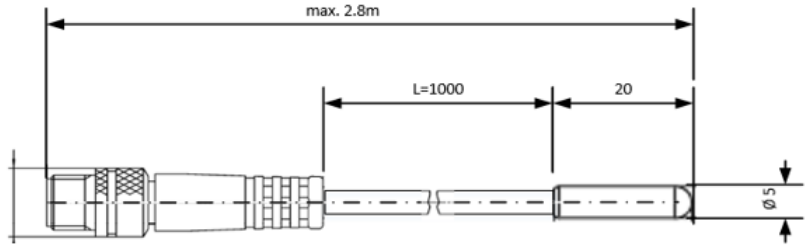


**Pt100 probe for dry ice applications with M8 connector**

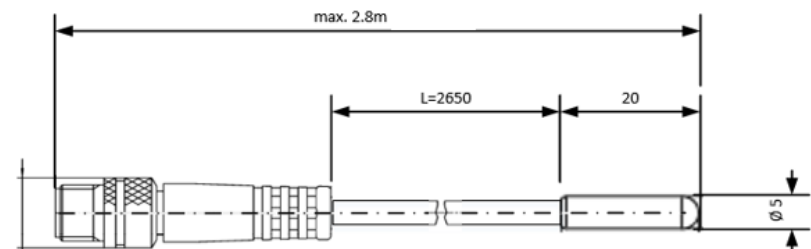
### 5.1.3 Freezer / fridge / ambient shipments and storage

For temperature monitoring of freezers, refrigerators or rooms, ELPRO offers two waterproof silicon Pt100 probes with different cable lengths as standard articles:

#### PRO\_PT100\_P20D5\_PLA1\_M8 (part number 802290)

Note	Cable with mounted M8 plug (male). Waterproof
Probe length	2 cm
Probe diameter	5 mm
Temperature range of probe	-50 °C...+105 °C
- Temperature range Class A	-30 °C...+105 °C
- Temperature range Class B	-50 °C...+105 °C
Cable length	1 m
Cable diameter	4.0 mm
Litz wire	4x AWG 24
Cable material	Silicon
Cable color	black
Temperature range of cable	bendable in the range between -60 °C...+90 °C
Drawing	

#### PRO\_PT100\_P20D5\_PLA2.65\_M8 (part number 802291)

Note	Cable with mounted M8 plug (male). Waterproof
Probe length	2 cm
Probe diameter	5 mm
Temperature range of probe	-50 °C...+105 °C
- Temperature range Class A	-30 °C...+105 °C
- Temperature range Class B	-50 °C...+105 °C
Cable length	2.65 m
Cable diameter	4.0 mm
Litz wire	4x AWG 24
Cable material	Silicon
Cable color	black
Temperature range of cable	bendable in the range between -60 °C...+90 °C
Drawing	



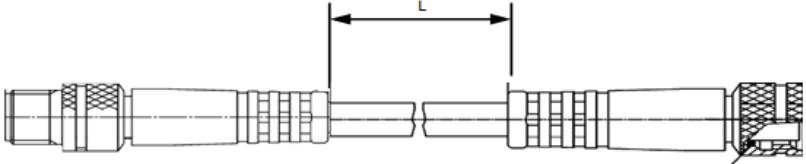
**Waterproof silicon Pt100 probe for freezer/fridge/ambient temperature monitoring with M8 connector**

#### 5.1.4 Extension of sensor cables

An extension cable with a length of 1m is also available.

**ATTENTION:** The total cable length (including sensor and cable tail on the data logger) must not exceed 3 m.

#### ECA\_PLA\_1M\_M8 (part number 802282)

Note	M8 plugs on both ends (male, female)
Probe length	n.a.
Probe diameter	n.a.
Temperature range of probe	n.a.
- Temperature range Class A	n.a.
- Temperature range Class B	n.a.
Cable length	1 m
Cable diameter	3.5 mm
Litz wire	4x AWG 28
Cable material	PVC
Cable color	black
Temperature range of cable	bendable in the range between -60 °C...+90 °C
Drawing	



**Extension cable** with two M8 connectors to attach the PDF data logger and the probe. The total cable length (including sensor and cable tail) must not exceed 3 m.



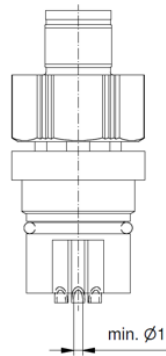
### 5.1.5 M8 connector incl. mounting on Pt100 probe

ELPRO offers a mounting service, adding an M8 connector to a Pt100 temperature sensor in order to use any 4-wire Pt100 probe together with the LIBERO CE.

#### CTR\_M8\_SER (part number 802289)

Note	M8 connector incl. mounting on any 4-wire Pt100 temperature probe
Probe length	depends on the selected probe
Probe diameter	depends on the selected probe
Temperature range of probe	depends on the selected probe
- Temperature range Class A	n/a
- Temperature range Class B	n/a
Cable length	depends on the selected probe
Cable diameter	depends on the selected probe
Litz wire	must be 4-wire
Cable material	depends on the selected probe
Cable color	depends on the selected probe
Temperature range of cable	depends on the selected probe

Drawing



**M8 connector mounting service to any Pt100 probe**

## 6 Configuration of the Logger

### 6.1 liberoCONFIG

liberoCONFIG is the free software to configure LIBERO PDF data loggers. It allows users to define all necessary configuration parameters and to save them as profiles. A profile contains all settings for the monitoring task and is documented in the PDF report generated by the logger.

The configuration of a single LIBERO Cx is done with liberoCONFIG. With SmartStart Pack & Go a profile can be assigned to a larger number of LIBEROs quickly and safely. SmartStart Pack & Go exe files can be used on any PC without installation and without special drivers.

#### System requirements

- Windows 7, 8 or 10
- CPU 1.5GHz
- Memory: 512 MB RAM
- Hard disk: 100 MB
- Monitor resolution: 800 x 600 Pixel

Details regarding configuration of LIBERO Cx can be found in the corresponding manual ([https://shop.elpro.com/daten/img/Documents/Operation%20Manuals/LIBERO/OM\\_LIBEROC\\_EN\\_web.pdf](https://shop.elpro.com/daten/img/Documents/Operation%20Manuals/LIBERO/OM_LIBEROC_EN_web.pdf)). In the following, only the differences or additional configuration options for the LIBERO CE are described.

## Logging

“Loop” was added as an additional logging mode, as LIBERO CE is a multi-use device.

NOTE: If the memory of the logger is full, newly measured values will continuously overwrite the oldest values.


Configuration LIBERO CE (ID 75090000123) ×

- Description
- Logging
- Alarm Conditions
- MKT and Duration Alarm
- Time Settings
- PDF Options
- Handling Options
- Drive Options
- Bluetooth

Profile Checksum  
**3.955.714.123**

### Logging

**Logging Interval / Duration**  

<  >

5 min / 262d 5h 20m

**Logging Mode**  
 Loop  
 Start/Stop

**Start Mode**  
 Start after pressing Start button  
 Start immediately  
 Start at (according to configured Time Zone)  

▼

**Alarm Activation**  
 At time of start  
 After start delay  Minutes  
 Log values before alarm activation  
 By pressing the Start button again  
 Log values before alarm activation  
 When temperature equal or below H1  
 Log values before alarm activation

Load ProfileSave ProfileApplyCancel

### Alarm Conditions

In the section "Alarm Mode" the possibility to select the inspection range has been added. The following options are available:

- **All data:** all recorded values are taken into consideration when assessing the alarm status (based on the configured alarm conditions)
- **Last alarming ON period only:** only the measured values between the last pressing of the "Alarming ON" button and the last pressing of the "Alarming OFF" button on the device are considered in the assessment. If the "Alarming ON" button was pressed last, i.e. the alarming is still active, all measured values since that time are taken into account.
- **All alarming ON periods cumulative:** all measured values recorded in phases with activated alarming are considered in the assessment.

### Alarming ON/OFF

Only if one of the last two options are selected, the alarming can be activated (Alarming ON) or deactivated (Alarming OFF) during measurement mode.

Configuration LIBERO CE (ID 75090000123) ✕

Description

Logging

Alarm Conditions

MKT and Duration Alarm

Time Settings

PDF Options

Handling Options

Drive Options

Bluetooth

### Alarm Conditions

**Alarm Mode**

Enable alarm conditions

Inspection Range: All alarming ON periods cumulative ▼

Inspection Range: All data

Inspection Range: Last alarming ON period only

Inspection Range: All alarming ON periods cumulative

Used	T [°C]	Alarm after	Event	Excursions by
H4: <input checked="" type="checkbox"/>	25.0	5 Minutes	Single	unlim.
H3: <input checked="" type="checkbox"/>	0.0	10 Minutes	Cumulative	unlim.
H2: <input checked="" type="checkbox"/>	-50.0	15 Minutes	Cumulative	unlim.
H1: <input checked="" type="checkbox"/>	-155.0	45 Minutes	Cumulative	unlim.
G:	-200.0	No alarm		
L1: <input checked="" type="checkbox"/>	0	0 Minutes	Cumulative	unlim.
L2: <input type="checkbox"/>	0	0 Minutes	Single	unlim.
L3: <input type="checkbox"/>	0	0 Minutes	Single	unlim.

Zone H1 and L1 coupled

Profile Checksum  
**3.955.714.123**

Load Profile
Save Profile
Apply
Cancel

## Stop Options

There are four options for LIBERO CE to stop data recording:

- Stop when creating PDF report
- Stop by long-pressing (> 3 seconds) the Stop button
- Stop when the PDF is generated and both buttons on the device are pressed at the same time (so stopping is basically possible, but the logger will hardly ever be stopped accidentally)
- Stop mode disabled (CAUTION: This turns LIBERO CE into a 3-year single-use device, as it cannot be stopped and therefore the configuration cannot be changed!)

Configuration LIBERO CE (ID 75090000123)



<p>Description</p> <p>Logging</p> <p>Alarm Conditions</p> <p>MKT and Duration Alarm</p> <p>Time Settings</p> <p>PDF Options</p> <p><b>Handling Options</b></p> <p>Drive Options</p> <p>Bluetooth</p>	<h3>Handling Options</h3> <div style="border: 2px solid red; padding: 5px;"><p><b>Stop Options</b></p><p><input type="checkbox"/> Stop when creating PDF Report</p><p><input checked="" type="checkbox"/> Stop by long-pressing Stop button</p><p><input type="checkbox"/> Stop by pressing both buttons when creating PDF Report</p><p><input type="checkbox"/> Stop mode disabled (CAUTION: single use device)</p><p>Minimum logging duration before LIBERO can be stopped or set to alarming OFF mode</p><p><input type="text" value="0"/> Minutes</p></div> <p><b>Display Options</b></p> <p><input type="checkbox"/> Hide Measurement Value on LIBERO display</p> <p><input type="checkbox"/> Hide Alarm Indicator on LIBERO display</p> <p><b>Profile-ID</b></p> <p>C <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="1"/></p> <p><input checked="" type="radio"/> Temporarily show Profile-ID on display (press button less than 1 sec)</p> <p><input type="radio"/> Always show Profile-ID instead of Strt on display</p> <p><input type="radio"/> Never show Profile-ID on display</p> <p><b>Thermal Damping</b></p> <p><input type="checkbox"/> Enable thermal damping</p> <p>T90 <input type="text" value="20"/> Minutes</p> <p>Probe Type</p> <p>Ambient Probe</p>
--	--

Profile Checksum  
**3.955.714.123**

Load Profile Save Profile Apply Cancel

## 7 Disposal

### a) Device



Electronic devices are recyclable and do not belong in the household waste. Dispose of the product at the end of its service life in accordance with applicable laws. Remove any batteries and dispose of them separately from the product.

### b) Batteries



You are legally obliged to dispose of all used batteries according to applicable laws; disposal via household waste is prohibited. Batteries are marked with the adjacent symbol, under which is printed the chemical symbol for the heavy metal (Cd = cadmium, Hg = mercury, Pb = lead). This indicates the battery contains hazardous material. You can dispose of used batteries at collection points in your local community. Please help protect our environment and dispose of batteries properly.



## 8 Declaration of Conformity



### EU Konformitätserklärung Déclaration UE de conformité EU Declaration of conformity

Hersteller   Fabricant   Manufacturer	ELPRO-BUCHS AG
Adresse   Adresse postale   Postal address	Langäulistrasse 45
PLZ   Code postal   Postcode	9470
Stadt   Ville   City	Buchs
Land   Pays   Country	Schweiz   Suisse   Switzerland
Telefon   Téléphone   Phone	T +41 81 552 08 08
E-Mail   E-mail   E-mail	swiss@elpro.com
Produktname   Nom du produit   Product name	LIBERO CE
Produkt Nr.   No de produit   Product no.	802279

#### Beschreibung | Description | Description:

LIBERO CE ist ein PDF Logger zur kontinuierlichen Temperaturüberwachung und Alarmierung, mit externem Pt100 Fühler, bis zu einer Kabellänge von 3m. | LIBERO CE est un enregistreur PDF pour la surveillance de température en continu et l'alarme, avec sonde externe Pt100, longueur maximale du câble 3m. | LIBERO CE is a PDF Logger for continuous temperature monitoring and alarming, with external Pt100 probe, maximum cable length 3m.

Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsrechtsvorschriften der Union. | L'objet de la déclaration décrit ci-dessus est conforme à la législation d'harmonisation de l'Union applicable. | The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:


EMV Richtlinie 2014/30/EU | Directive compatibilité électromagnétique 2014/30/UE | Electromagnetic compatibility Directive 2014/30/EU  
RoHS - Richtlinie 2011/65/EU | Directive RoHS 2011/65/UE | RoHS Directive 2011/65/EU

#### Harmonisierte Normen und Spezifikationen | Normes harmonisées et spécifications | Harmonized standards and specifications:

EMV   Compatibilité électromagnétique   Electromagnetic compatibility	EN 61326-1 : 2012-02
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Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller. | La présente déclaration de conformité est établie sous la seule responsabilité du fabricant. | This declaration of conformity is issued under the sole responsibility of the manufacturer.

Buchs, den 25. November 2019  
Buchs, le 25 novembre 2019  
Buchs, November 25, 2019

ELPRO-BUCHS AG  
  
Dirk Neumann  
Leiter der Entwicklung  
Chef du développement  
Head of Development

we prove it

