



OPERATION MANUAL

LIBERO Alarm Bracket

Operation Manual

we prove it.

1. Introduction

The LIBERO alarm bracket works with the LIBERO models Ti1-L, Te1-Nx, Te1-Px and the THi1-x. Its functionality is driven by the LIBERO PDF Logger. The alarm bracket is designed to be mounted to a wall in order to hold LIBERO in a defined position. It is battery-operated and therefore does not need any external power supply.

Functions

- Red LED will indicate the alarm (flashing)
- Built-in buzzer gives an acoustic indication (beep)
- Internal relay closes or opens (NO/NC) and may be used to trigger an external alarming system as siren or telephone dialing unit
- Yellow LED will indicate low battery status of the alarm bracket batteries



2. Alarm Bracket Settings

«Silent» period

When pressing the «Silent» button, the audio alarm will be suppressed for 30 minutes or 2 hours.

«Missing data logger»

The alarm bracket can trigger an alarm if the data logger is missing from the bracket for more than 30 minutes.

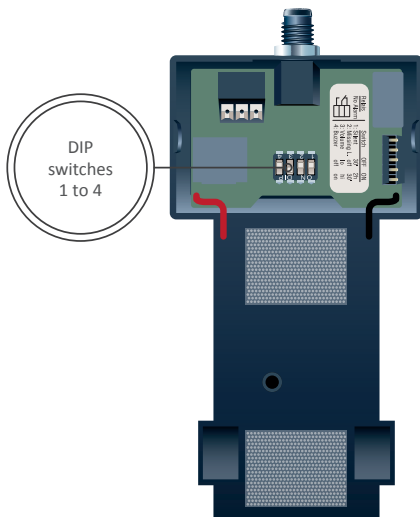
Buzzer volume

The audio alarm has 2 volume levels.

Turn buzzer ON / OFF

The audio alarm can be turned off or on.

LED alarm indicator and relay will remain active.



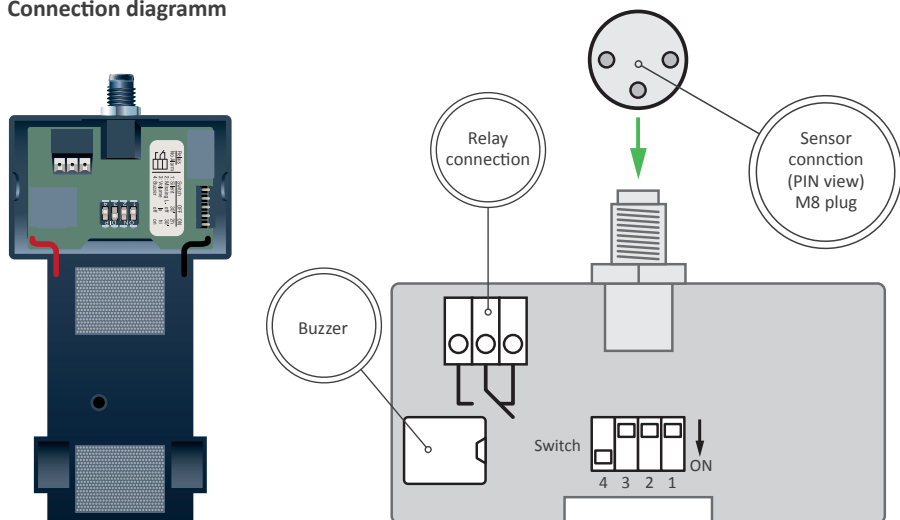
DIP Switch	Settings	OFF	ON	Factory Settings
1	Silent period / suppression of audio alarm	30 min	2 h	OFF
2	Missing data logger	OFF	30 min	OFF
3	Buzzer volume	Low	High	OFF
4	Buzzer	OFF	ON	ON

3. Connection of Probe and External Alarm Device

Any ELPRO temperature probe – NTC (2-wire) or Pt100 (3-wire or 4-wire, IEC 751) with a maximum cable length of 3 meters can be connected to the alarm bracket.

Use the M8 coupling to fix the temperature probe.

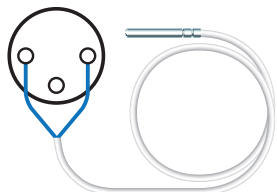
Connection diagramm



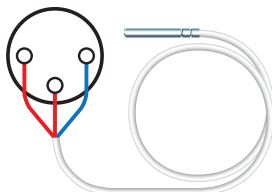
Probe wiring

View onto the connector of the alarm bracket:

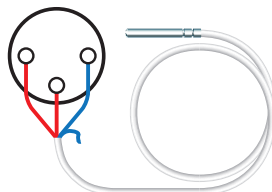
NTC



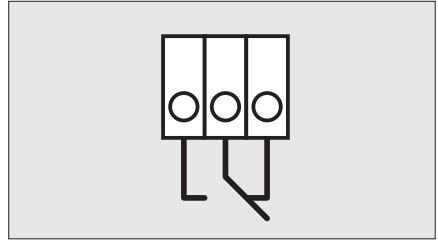
Pt100 3-wire



Pt100 4-wire



The alarm bracket has a built in alarm relay, which can trigger an external device (GSM interface or automatic telephone dialer). The relay contains a dry contact 3-way switch. As soon as the red LED is flashing, the relay contact changes to the «Alarm» position. The external alarm has to be connected to the internal terminals; it cannot be attached to the probe connector.



Switch setting as shown: No alarm

Maximum switching load:

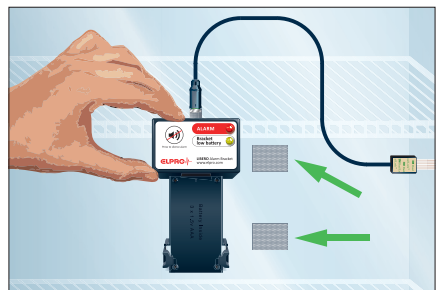
42 VDC or VAC; 500 mA

4. Installation of the Alarm Bracket

Align the connector of the flexible flat cable and carefully plug it into the alarm bracket, tighten the lock nut.



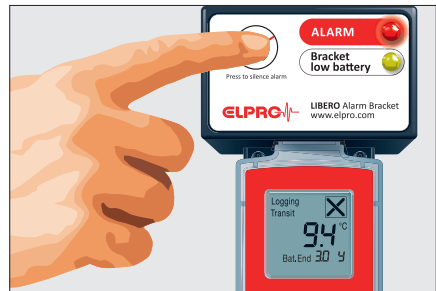
Use the adhesive tape to mount the alarm bracket and fix it by firmly pressing.



5. In Case of Alarm

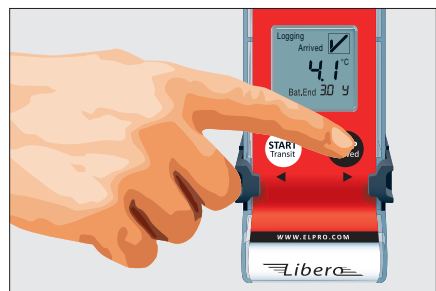
As soon as the configured alarm limits have been exceeded, the LIBERO display changes from OK to ALARM. The alarm bracket is triggered within 10 seconds.

- The red LED indicates the alarm (flashing light)
- The built-in buzzer gives an audible signal (beep)
- The internal relay closes or opens (NO / NC) and notifies an external alarm such as a telephone dialer (if connected)
- If the alarm cannot be immediately corrected, press the «Silent» button on the alarm bracket to suppress the audible alarm. The red LED remains flashing until the alarm has been reset.



Alarm reset and data logger evaluation

- Re-establish storage temperature
- Press «STOP / Arrived» button for 3 seconds to end the current monitoring period
- Disconnect LIBERO from the alarm bracket
- Generate the PDF report
- Connect LIBERO with alarm bracket
- Press «START / Transit» button for 3 seconds to start new monitoring period



6. Battery Warning and Exchange

The alarm bracket is self-sustaining and powered by internal batteries. The power is not supplied by the connected LIBERO PDF Logger. We recommend changing the batteries once every year or at the latest when the yellow «Bracket low battery» LED is lit. To exchange the batteries open the alarm bracket cover. Carefully remove the used batteries and exchange them with 3 new Alkaline AAA 1.5 V batteries.



7. Options

In order to protect the alarm bracket during transportation, there is stainless steel protection housing available.

Part Numbers

LIBERO Alarm Bracket	800915
Stainless steel protection housing for LIBERO alarm bracket	800914
M8 connector, if own temperature probe is used	800919





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