

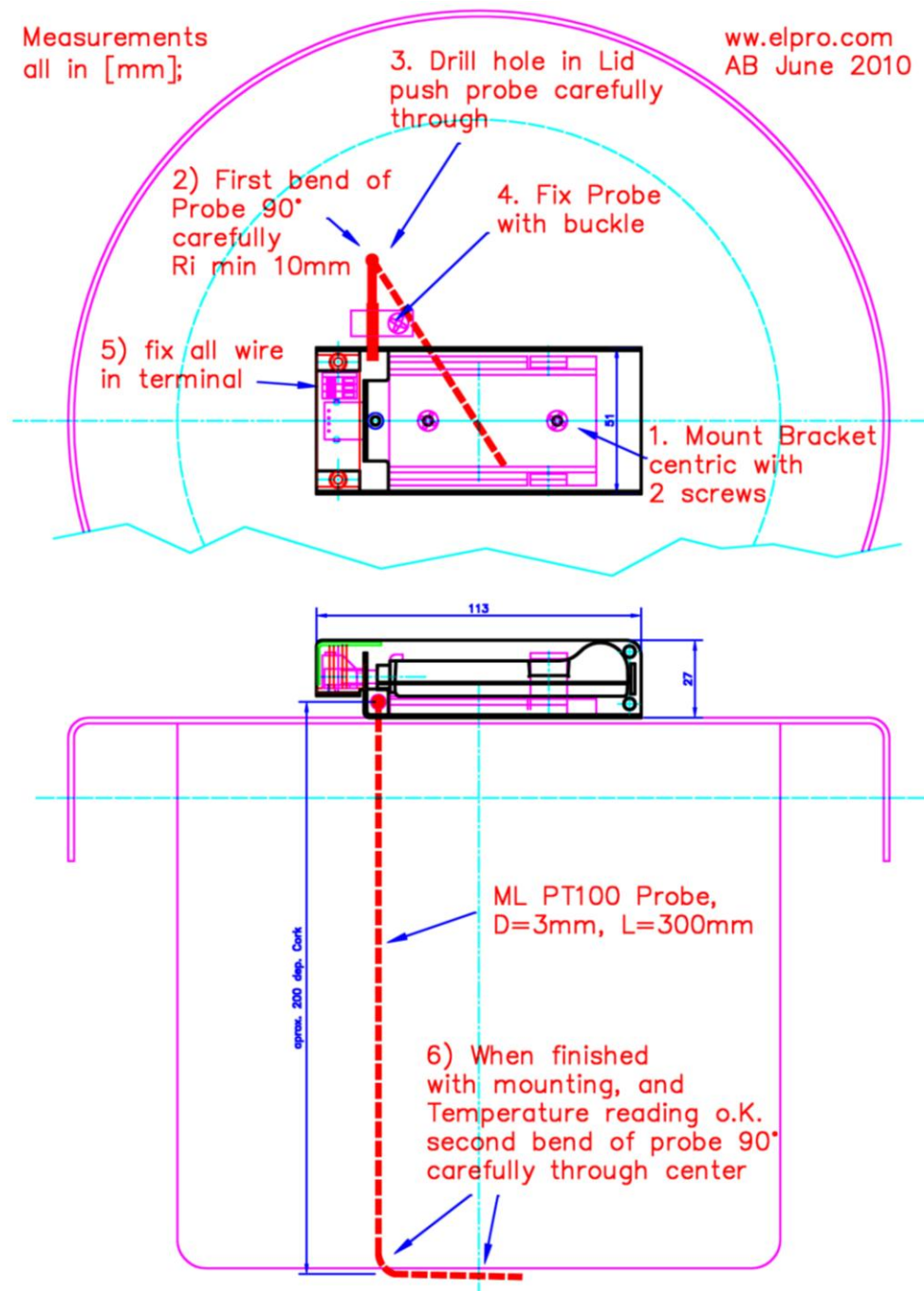
Libero Monitoring for LN2 CryoShipper (EXAMPLE only)

Mounting of stainless steel bracket and connection of probe:

Mounting of a VME CryoShipper Typ CX, CryoShipper or CryoShipper mini

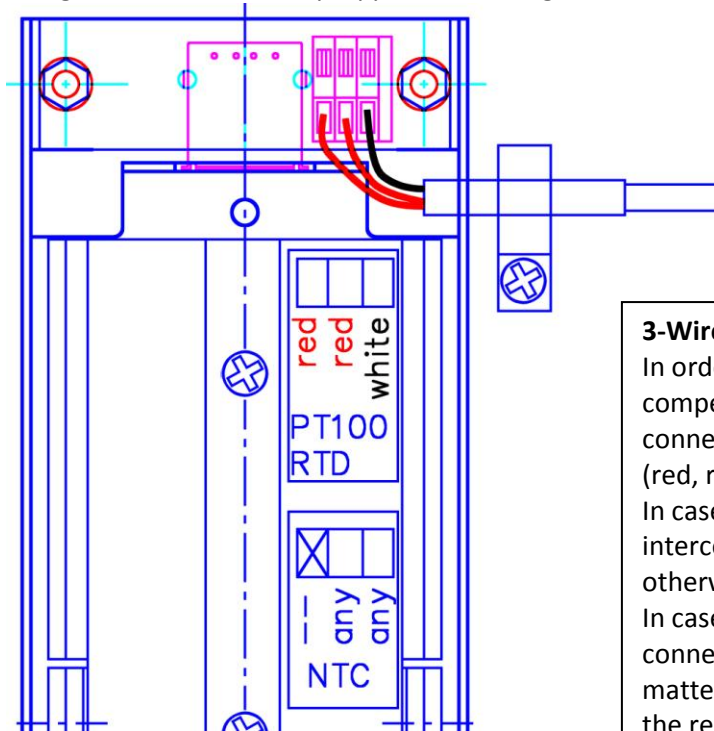
Information:

- Temperature probe of ML type can be bended with radius aprox. 10mm
Do NOT bend the last 40mm (Sensor part) at the end of the probe
- Probe can be pushed carefully through cork, Pre-drill hole if required
- Make the last bend only when the mounting is finished,
- Run the end of the probe (sensor) under the center of the cork for correct measuring minimum 40mm.
- Follow steps 1) to 6)



Connection of Probe Cable in Terminal

- Fix bracket first with two screws
- Fix Probe in place as shown, clamp and screw
- Connect cables to terminals
Press button (Spring Type) and enter cable deep into clamp
- Check carefully when finished (Pull cable slightly back to feel good connection)
- Plug in Libero and check proper functioning



3-Wire Pt100 (RTD) connection:

In order to achieve the correct cable length compensation the Pt100 probe must be connected with the 3-wire mounting system. (red, red, white).

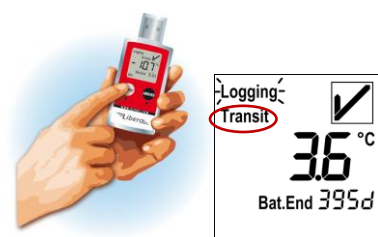
In case a **2-wire Pt100 probe** is used, a bridge interconnection (red/red) has to be made; otherwise the reading will be faulty.

In case a **4-wire Pt100 probe** is used, a bridge connection (red/red/white - one white, no matter which one) has to be made; otherwise the reading will be faulty.

Use of Libero PDF Logger

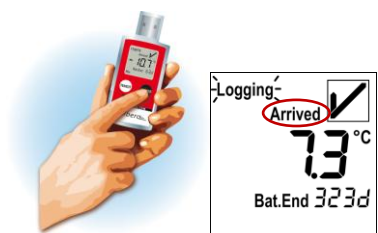
- Prepare Logger and configure
- Use depends on the settings and the planned task

Example:



At departure

1. Please check LIBERO display:
If it is already in «TRANSIT», press the «ARRIVED» button for 2 seconds.
2. To start a new transport section,
press «TRANSIT» button for 2 seconds:
Logging status changes to «TRANSIT»
and temperature monitoring becomes active.



At destination

1. To mark the end of a transport section,
press the black «ARRIVED» button
for about 2 seconds:
Logging status changes to «ARRIVED».
2. Disconnect LIBERO from Terminal and
plug LIBERO into the USB port of your PC.
3. Within few seconds, the evaluation report
(PDF/A file) will automatically be generated
and presented in the Explorer.
4. Open PDF file and carefully read instructions
under «Additional information».