ITS

Compact temperature control solution for material testing

- Temperature range from -35 °C to +150 °C
- Temperature accuracy ±0.1 °C
- Compact temperature chamber
- Controlled by EC-Lab® and MT-Lab®

ITS with dedicated sample holder (CESH)

- Inert and active gas environment
- Controlled atmosphere (up to 2 bar)

BioLogic Science Instruments

APPLICATIONS

- Material testing for
  - Battery
  - Fuel cell
  - Supercapacitor
- Other materials
  - Polymer
  - Rubber
  - Glue
  - Epoxy

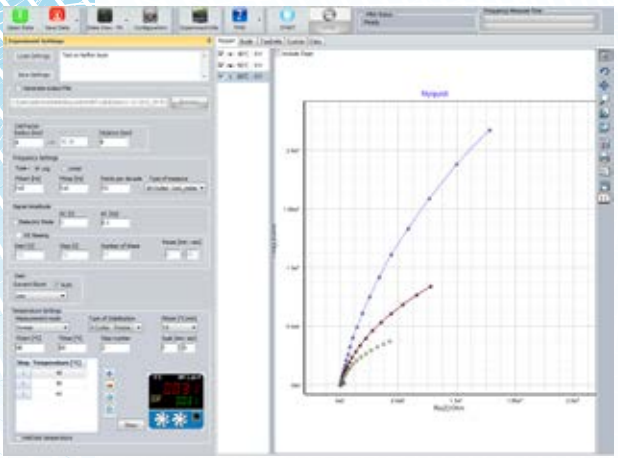
The Intermediate Temperature System (ITS) is a temperature control unit based on **Peltier** effect.

The **ITS** is a compact temperature chamber with a small footprint. It enables accurate temperature control from **–35 °C to +150 °C**.

The **ITS** is designed to accommodate Bio**Logic** sample holders such as leak tight **sample holders (CESH)**. The two PT-1000 temperature probes provided with the **ITS** ensure an accurate measurement and control of the temperature. An optional PT-1000 probe is proposed for a direct measurement of the actual temperature of the sample.

The **ITS** is suited for the characterization of materials properties by impedance measurements under controlled temperature. It was adapted for a use in controlled atmosphere (up to 2 bar relative pressure) with **CESH** option.

The sample can be prepared in a glove box, placed in the **CESH** and then installed in the **ITS**. The **ITS** is compatible with **MTZ-35 impedance analyzer** and with Bio**Logic** potentiostats/galvanostats/FRAs. This allows Bio**Logic** system owners to easily setup their own experiments.



Software

The **ITS** is controlled through USB connection using MT-Lab® software. MT-Lab® software offers an intelligent temperature management with various temperature control modes. The **ITS** can be also controlled by EC-Lab® software using Auxiliary inputs/output of Bio**Logic** potentiostat.

MT-Lab® and **EC-Lab®** interface provide protocols and data graphing for impedance measurement and data processing. The impedance data can be fitted using the powerful **Z Fit** tool available in both software.

SPECIFICATIONS

Temperature range	-35 °C to +150 °C
Temperature accuracy	±0.1 °C
Computer Interface	USB 2.0
Mains voltage	115 V/230 V 50/60 Hz
Power consumption	250 W
Dimension	400 x 313 x 385 mm (L x W x H)
Weight	8 kg

The full system includes:

- The ITS
- A leak tight CESH
- Two PT-1000 probes

Optional

- Third PT-1000 probe
- MTZ-35 impedance analyzer or Bio**Logic** potentiostat

Brochure released on March 2016 - Pictures and specifications subject to change

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