

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)



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.

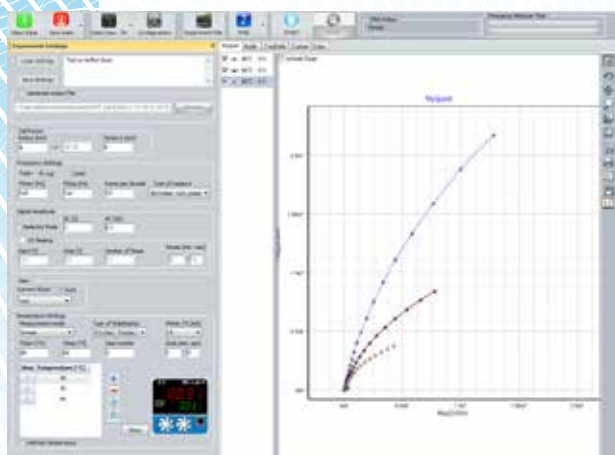
The **ITS** is a compact temperature chamber with a small footprint. It enables accurate temperature control from **-35 °C to +150 °C**.

The **ITS** is designed to accommodate **BioLogic** 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).



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 **BioLogic** potentiostats/galvanostats/FRA's. This allows the users 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 **BioLogic** 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 **BioLogic** potentiostat

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