

ITS

Compact temperature control solution for material testing



- Temperature range from -35 °C to +150 °C
- Temperature accuracy ± 0.3 °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



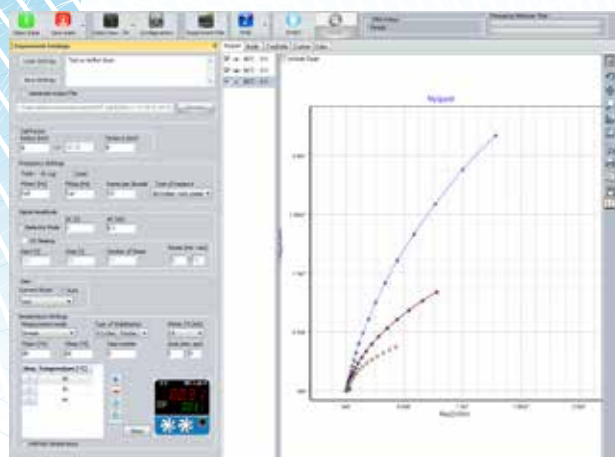
The Intermediate Temperature System (ITS) is a temperature control unit based on Peltier effect.

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 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	±0.3 °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



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