

INTEGRATED CIRCUITS
ELECTROINC INDUSTRIES

Change of State Gases

Software

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Overview

The Change of State Gases Trainer software allows the user to perform two main experiments: Isothermal and Isochoric processes. The software connects via USB to the computer and displays real-time data, which can be plotted for analysis.

System Connection

- **Connection Type:** USB from the device to the computer.
- **Procedure:**
 1. Connect the USB cable from the unit to the computer.
 2. Launch the software using the Run button.
 3. Select "Connect Trainer" and choose the correct port.

Available Experiments

Total Experiments: 2

1. **Isothermal Process**
2. **Isochoric Process**

Features

- Direct USB connection for real-time data acquisition.
- Supports plotting for Isothermal and Isochoric experiments.
- Easy selection of experiment and port connection.
- Real-time visualization of changes during experiments.

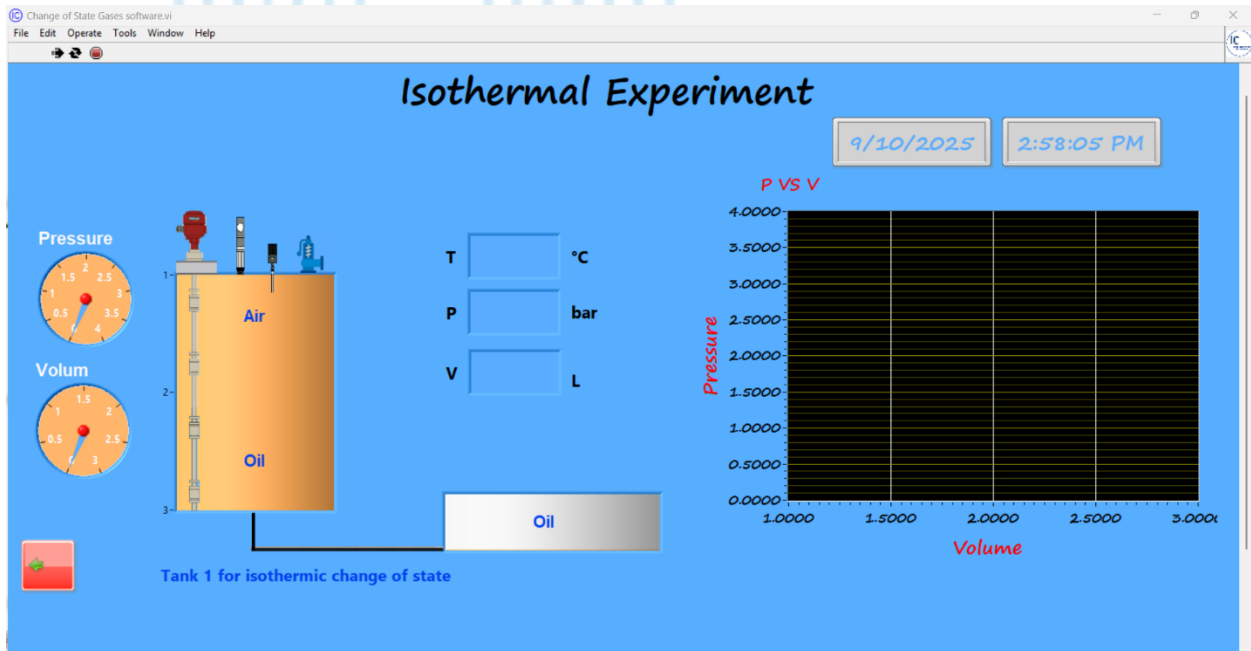
Troubleshooting

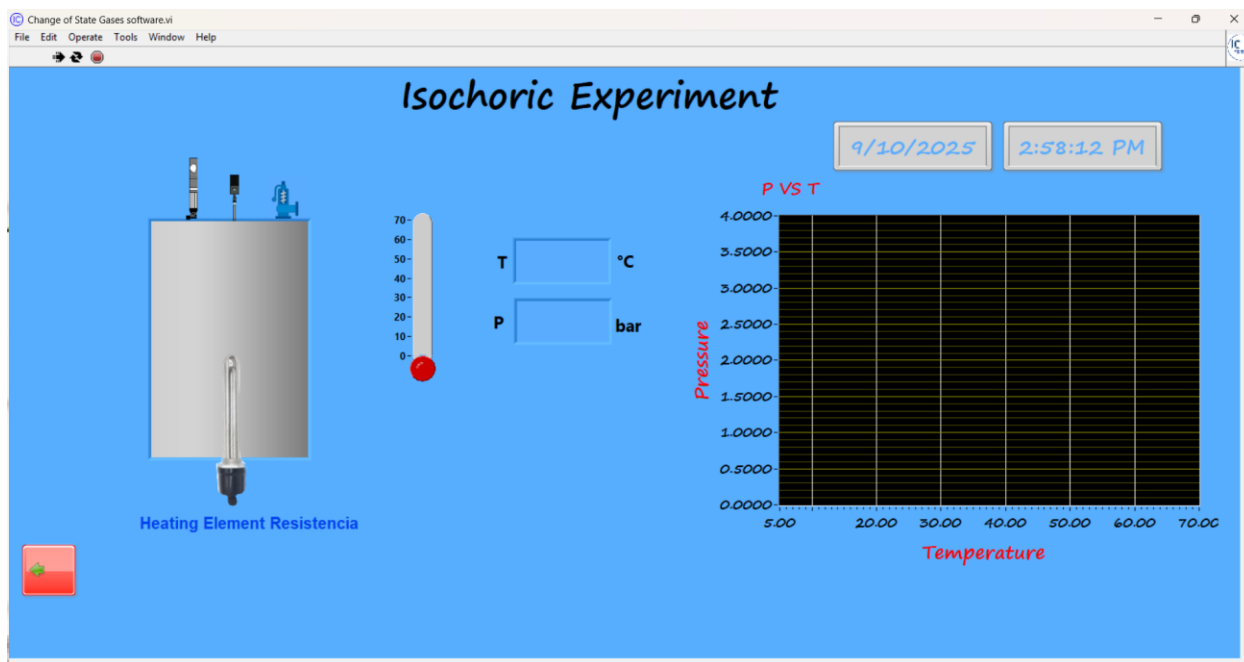
- **Port not visible:** Ensure USB cable is connected correctly and restart the software.
- **Data not displaying:** Verify device settings and experiment selection.

The software interface consists of two main tabs:

1. **Isothermal Tab**
 - Displays real-time data for the isothermal experiment.
 - Plots **Temperature vs Volume** dynamically.
 - Allows monitoring of gas behavior under constant temperature conditions.
2. **Isochoric Tab**
 - Displays real-time data for the isochoric experiment.
 - Plots **Temperature vs Pressure** dynamically.

- Allows monitoring of gas behavior under constant volume conditions.





Note: Data can be exported for further analysis and reporting.