

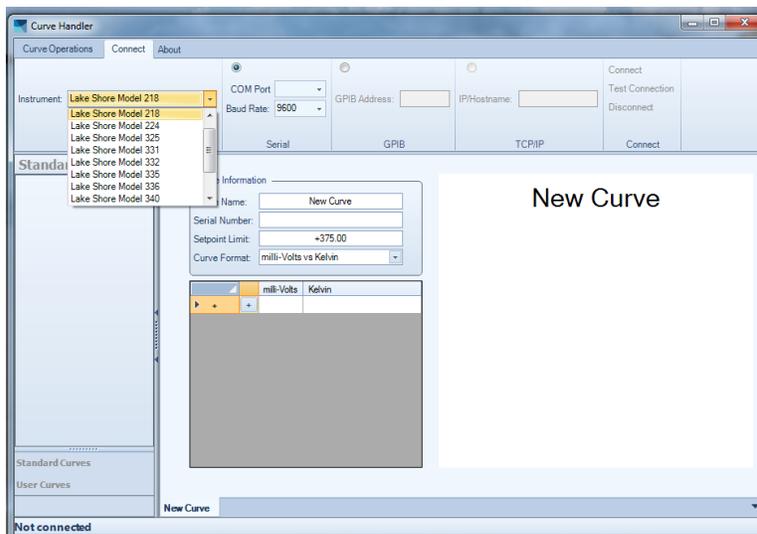
Curve Handler Basic Operation

This document provides basic information on writing, reading and modifying curve files.

- [To connect to an instrument](#)
- [To load a curve from a file](#)
- [To write a curve to an instrument](#)
- [To build a new curve](#)
- [To read a curve from an instrument](#)
- [To save a curve to a file](#)

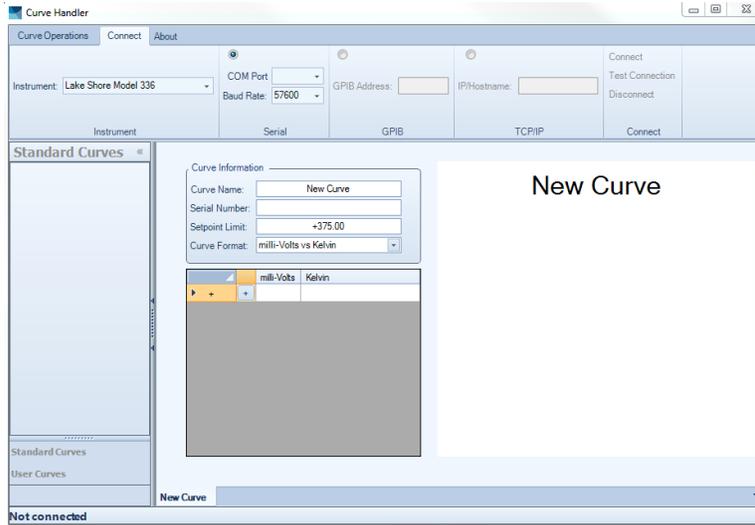
To connect to an instrument:

1. Start the Curve Handler application.
2. Select the appropriate instrument.

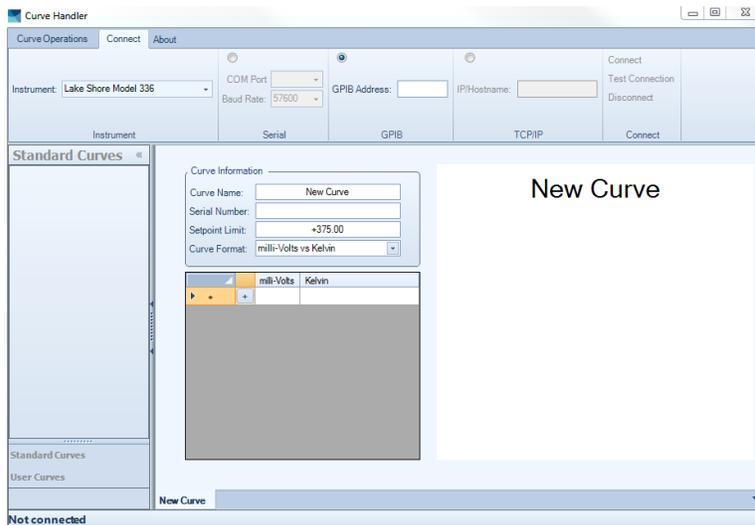


3. Select the radio button for the interface you will be using.

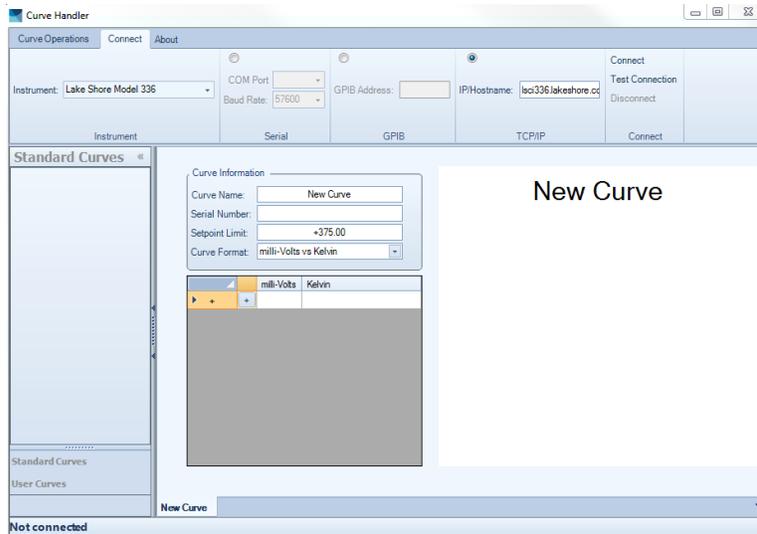
- If you will be using a Serial interface, set the COM Port and Baud Rate as directed, and then click **Connect**:



- If you will be using the GPIB interface, set the Curve Handler's GPIB Address to match the GPIB Address of the instrument you are working with, and then click **Connect**:

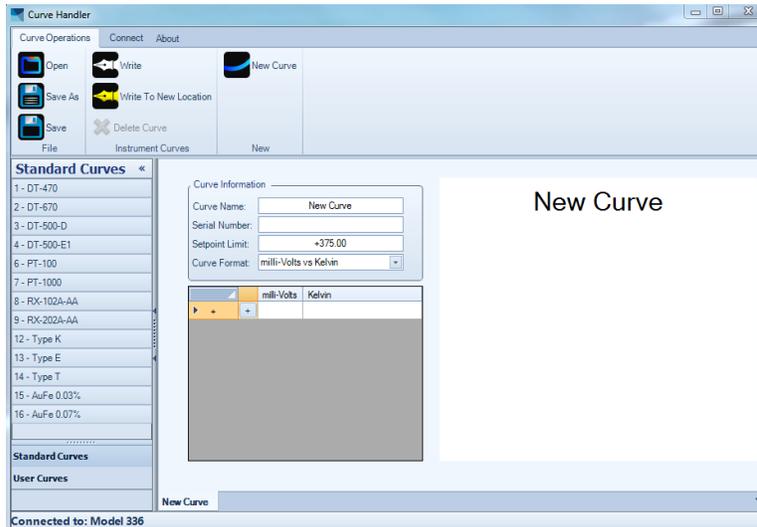


6. If you will be using IP address or hostname, set the Curve Handler's IP/Hostname to match the IP/Hostname of the instrument you are working with, and then click **Connect**:



To load a curve from a file:

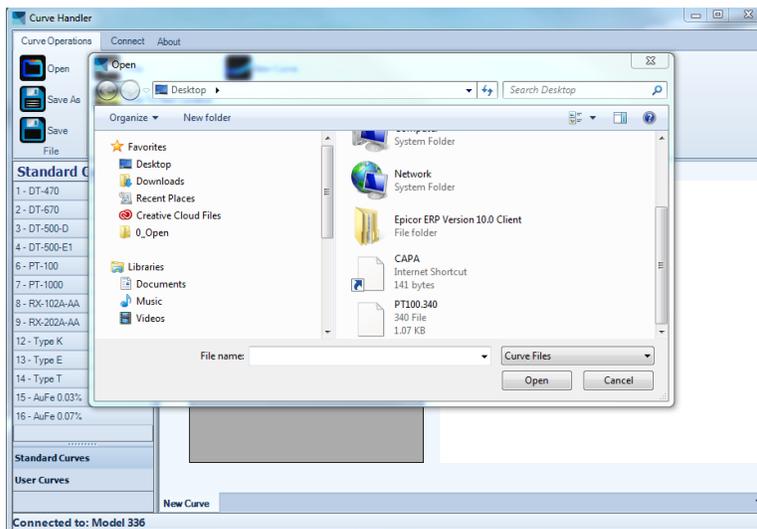
1. Click the **Open** button.



2. The **Open** window will display only the files with the correct extension for the instrument selected. Choose the correct file type from the dropdown list.

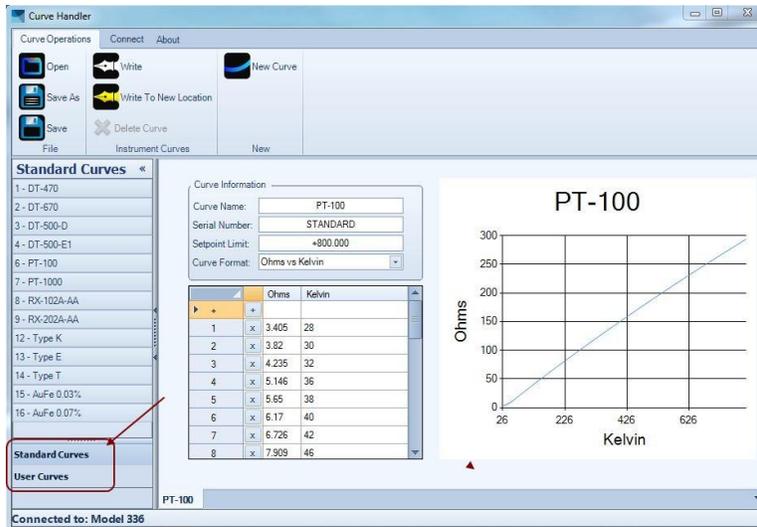
There are two types of curve files:

- .340 Curve File: legacy file format.
- CURVE file: new file format that is needed to load cubic spline curves.



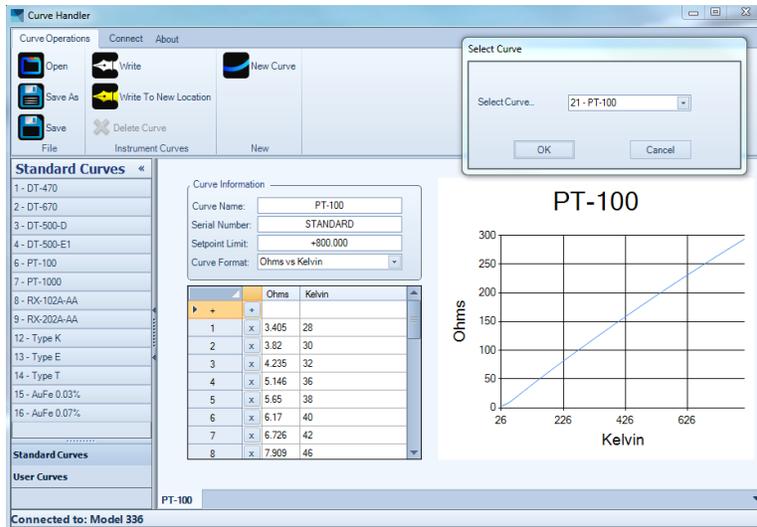
Locate the file and then click **Open**.

- The Curve Information, data points, and graph will populate. Separate tabs are available at the bottom of the screen for Standard Curves and User Curves. Each tab loads a separate list of curves. (Standard Curves are read-only curves that are supplied with the instrument. User Curves are writeable locations.)



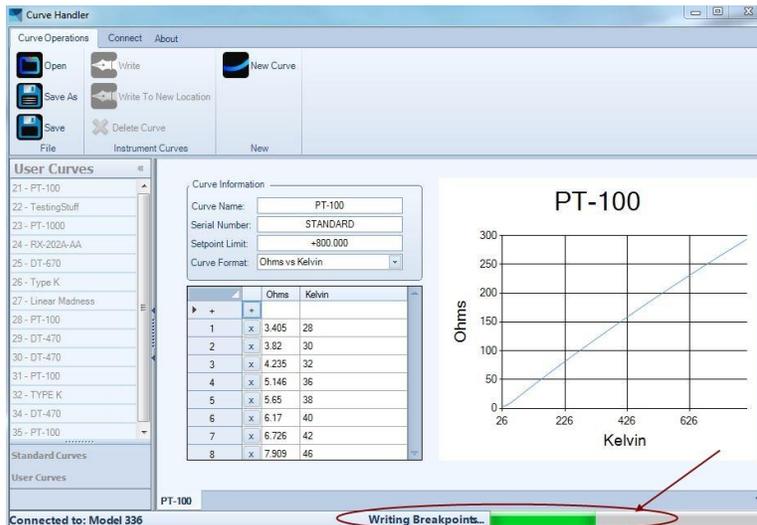
To write the curve to an instrument:

1. Click the **Write to New Location** button, select the curve from the dropdown list, and then click **OK**.

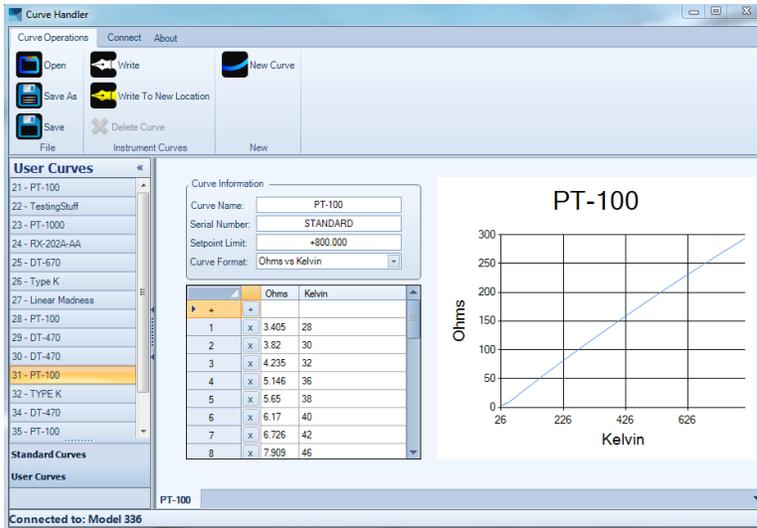


If you choose a location that already contains a curve, it will be overwritten (a Warning window will appear, asking you to confirm). Blank curve locations can be identified by the name “User Curve.”

2. The curve will be written to the location selected and you will see a progress indicator (at the bottom of the screen) until the write process is completed.

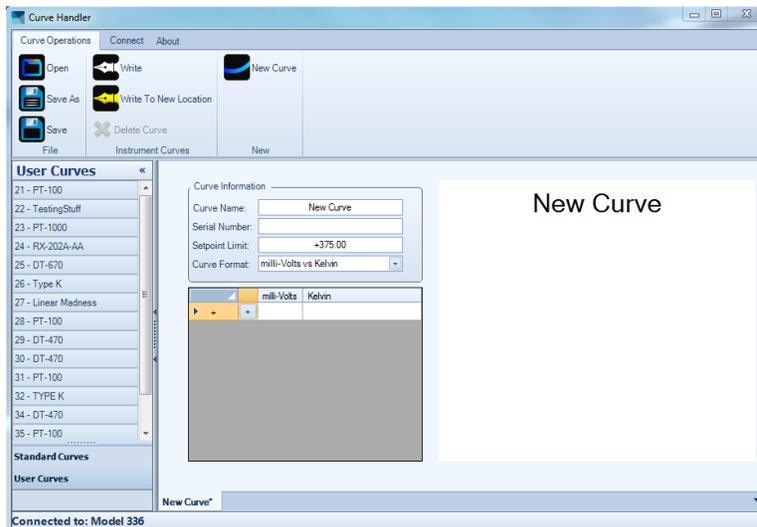


- Once you write to a curve, it will be highlighted in the list of curves to show that it is the active curve. Changes to this curve can now be saved by clicking the **Write** button.



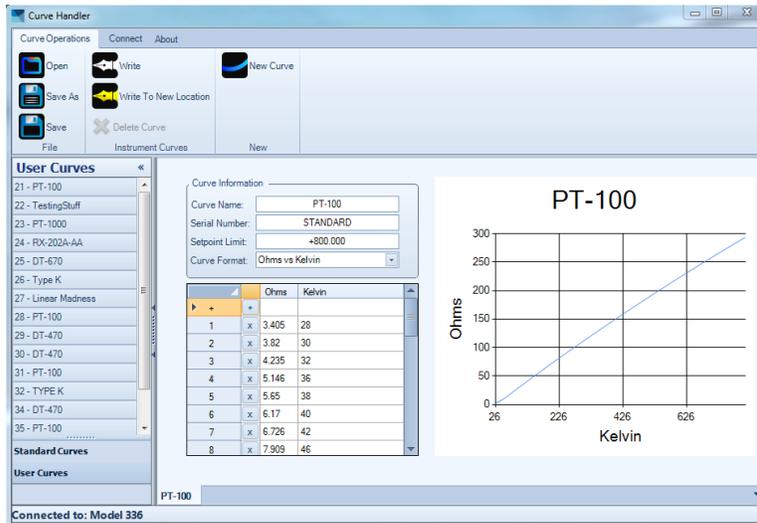
To build a new curve:

1. Click the **New Curve** button.
2. Enter the Curve Name, Serial Number, and Setpoint Limit in the fields provided, and choose a Curve Format.
3. To save the curve to a file, refer to the section titled [To save a curve to a file](#). To write the curve to the instrument, refer to the section titled [To write a curve to an instrument](#).



To read a curve from an instrument:

1. To modify an existing curve, open the curve (open the curve from a file or read a curve from an instrument) from the Standard Curves or User Curves tabs. (Standard Curves are read-only curves that are supplied with the instrument. User Curves are writable locations.)



2. Once the graph has populated, change any data by typing over any field. Once all points have been entered, you can write the file to the instrument (if you are connected) or to a file.

To save a curve to a file:

1. Click the **Save** or **Save As** button.
2. Name the file, and choose a file type from the **Save as type** dropdown list.
There are two types of curve files:
 - .340 Curve File: legacy file format.
 - CURVE file: new file format that is needed to load cubic spline curves.
3. Save the file to your selected location.

