tecaLOG Software
Product Manual

Volume 1.1D

When used with TC-5300 Temperature Controllers in:

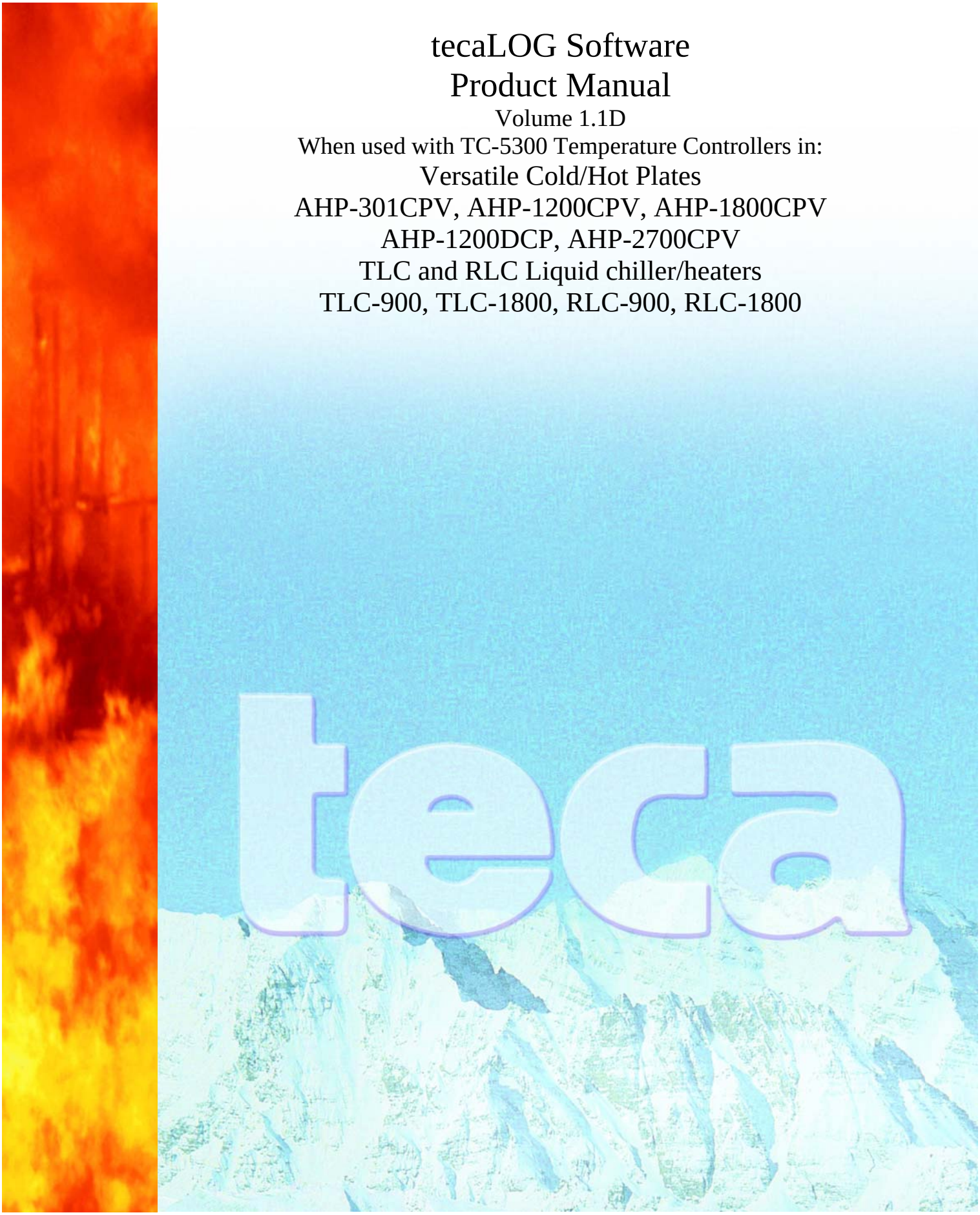
Versatile Cold/Hot Plates

AHP-301CPV, AHP-1200CPV, AHP-1800CPV

AHP-1200DCP, AHP-2700CPV

TLC and RLC Liquid chiller/heaters

TLC-900, TLC-1800, RLC-900, RLC-1800



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What's needed to run tecaLOG ???

Computer with USB1 or USB2 Port
Operating Systems: Win XP, 7 and 10
Memory: 8 GB or more is nice
4GB works

Installed, dotNET framework 4.0 or higher
available online or already on your computer

USB Driver PL-2303 USB-to-Serial
(Included & available on-line)

A CPV or TLC Product from
TECA and it's USB cable

Attention: Install USB Driver First!!! Before connecting the system to your computer USB port, and before installing the "tecaLog" software you need to install the USB Driver.

STEP 1: Open the "3 - USB Driver" folder and double click on the "PL2303_Prolific_DriverInstaller_v1.5.0.exe" and follow the on screen installation steps. (For more information on how to install the USB Driver please read the "um_pl2303_DriverInstallerManual_v1.5.0.pdf" in the "USB Driver" folder.)

STEP 2: Open the "2 - tecaLOG Software" folder and double click on the "tecaLog" executable file. Follow the on screen instructions to install the "tecaLog" software on your computer.

STEP 3: Reboot your computer.

STEP 4: Connect the TECA unit to your computer USB port, power up the unit and start the "tecaLog" software.

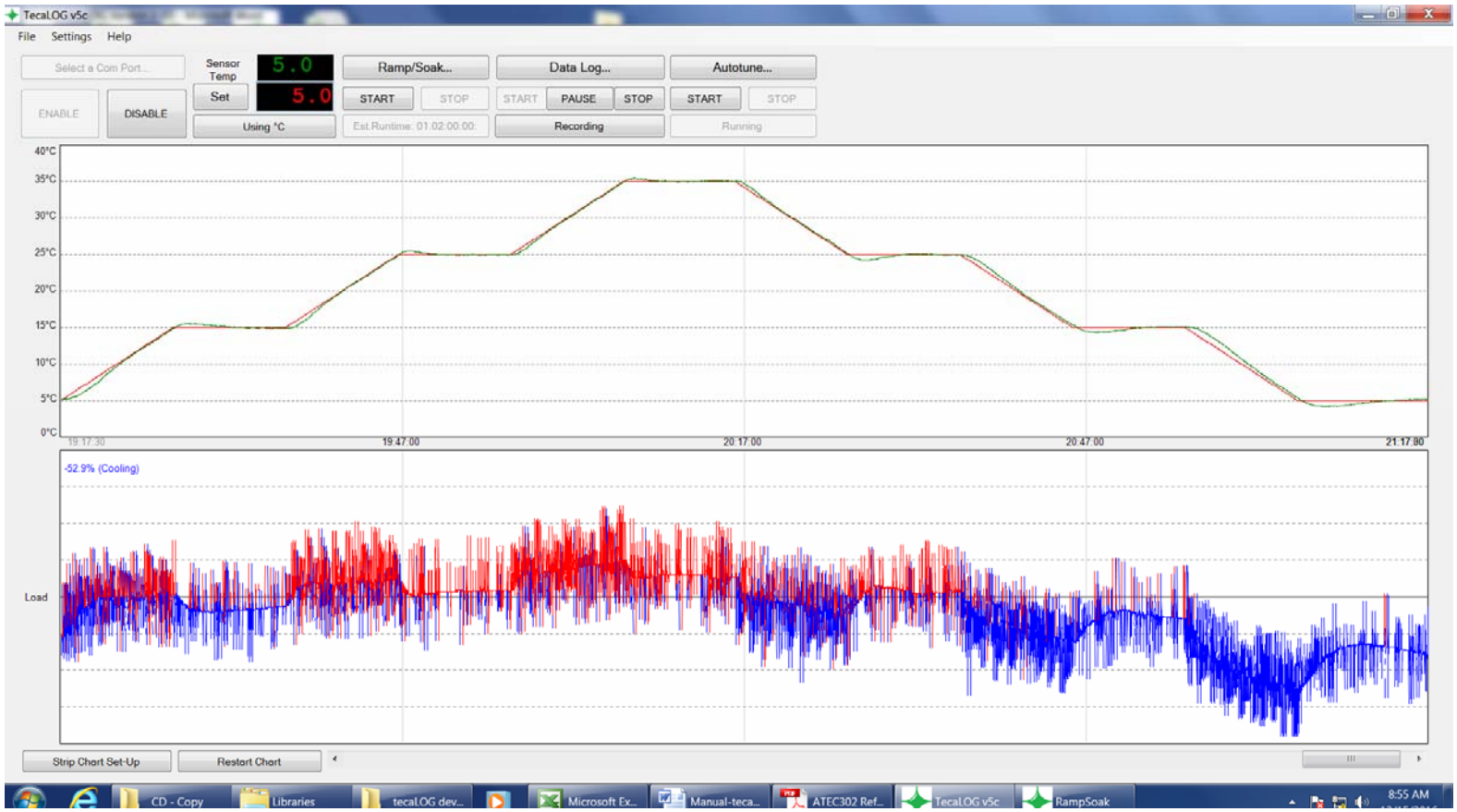
tecaLOG Software Features

- USB Communication
- Parameter saving and loading
- On/Off, Set Point, Unit selection
- Strip Chart display of Sensor Temperature, Set Point and Power
- Programmable Ramp/Soak routines
- Data Logging and File saving
- PID Parameter selection: Multi Range, Manual or Autotune
- Setting maximum and minimum range
- Setting Process Value and Set Value offsets

tecaLOG Main Window Display

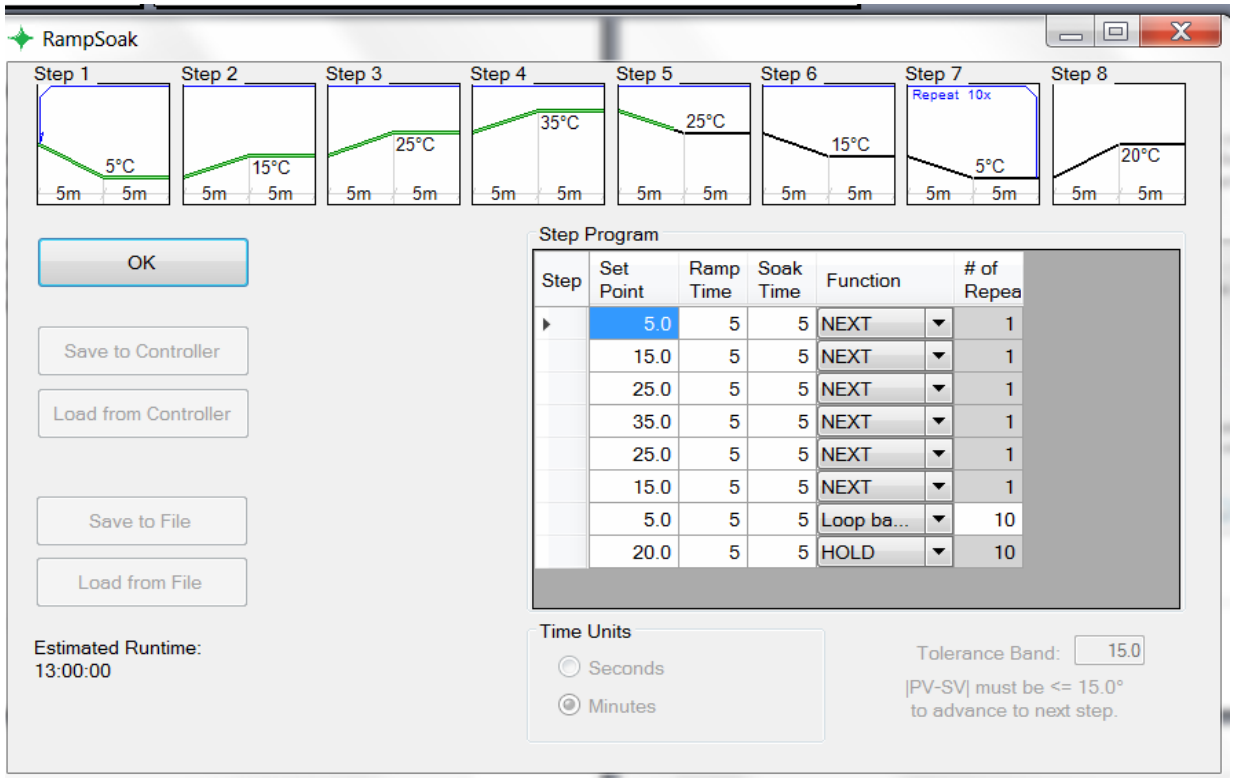
File: Parameter Transfers
Settings: Decimal selection
Help: Minimal
Select a Comm Port: Initiates communication
Enable and Disable: Turns functions on and off
Sensor Temp: Displays sensor measured value
Set: Enter value, press "Set" to send to controller

Ramp/Soak: Create and Run profiles
Data Log: Set up and start data logging function
Autotune: Methods of adjusting and saving PID values
Strip Chart: Displays Set, Sensor and Power on a time scale
Strip Chart Set Up: Adjust Strip Chart axis and display



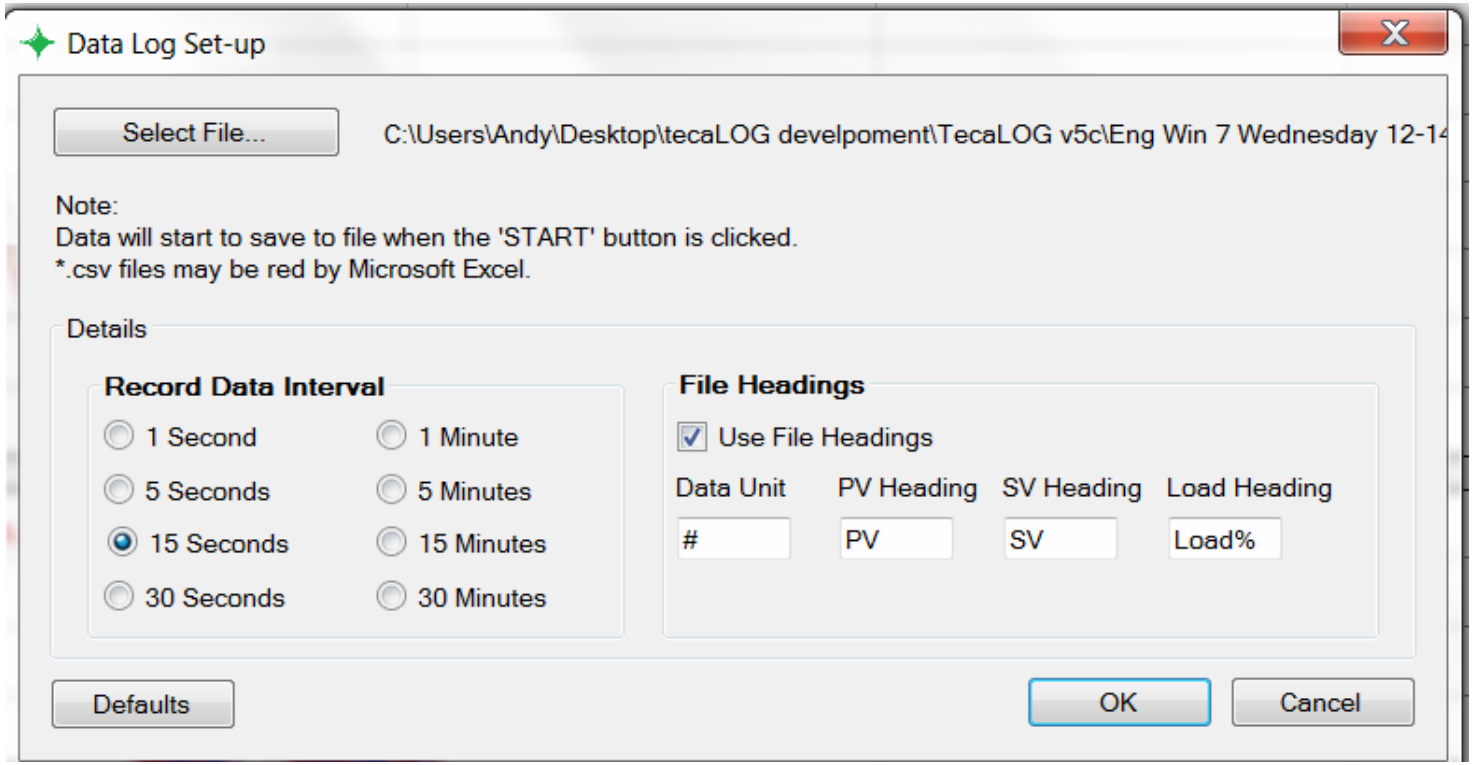
Ramping and Soaking

Create and program ramp-soak profiles, with multiple loops of up to 8 steps.
Create and define 8 segments with set ramp times and soak times in minutes or seconds
Define loops within loops and repeat the profile with infinite loops
Visualize the profile and run time on screen. Time is displayed as days:hours:minutes:seconds
Define a small "Tolerance Band" to stops the clock until the set temperatures is reached.
Save and load the profile to a file or controller.
Hold a temperature or End operation when done or create an infinite loop.

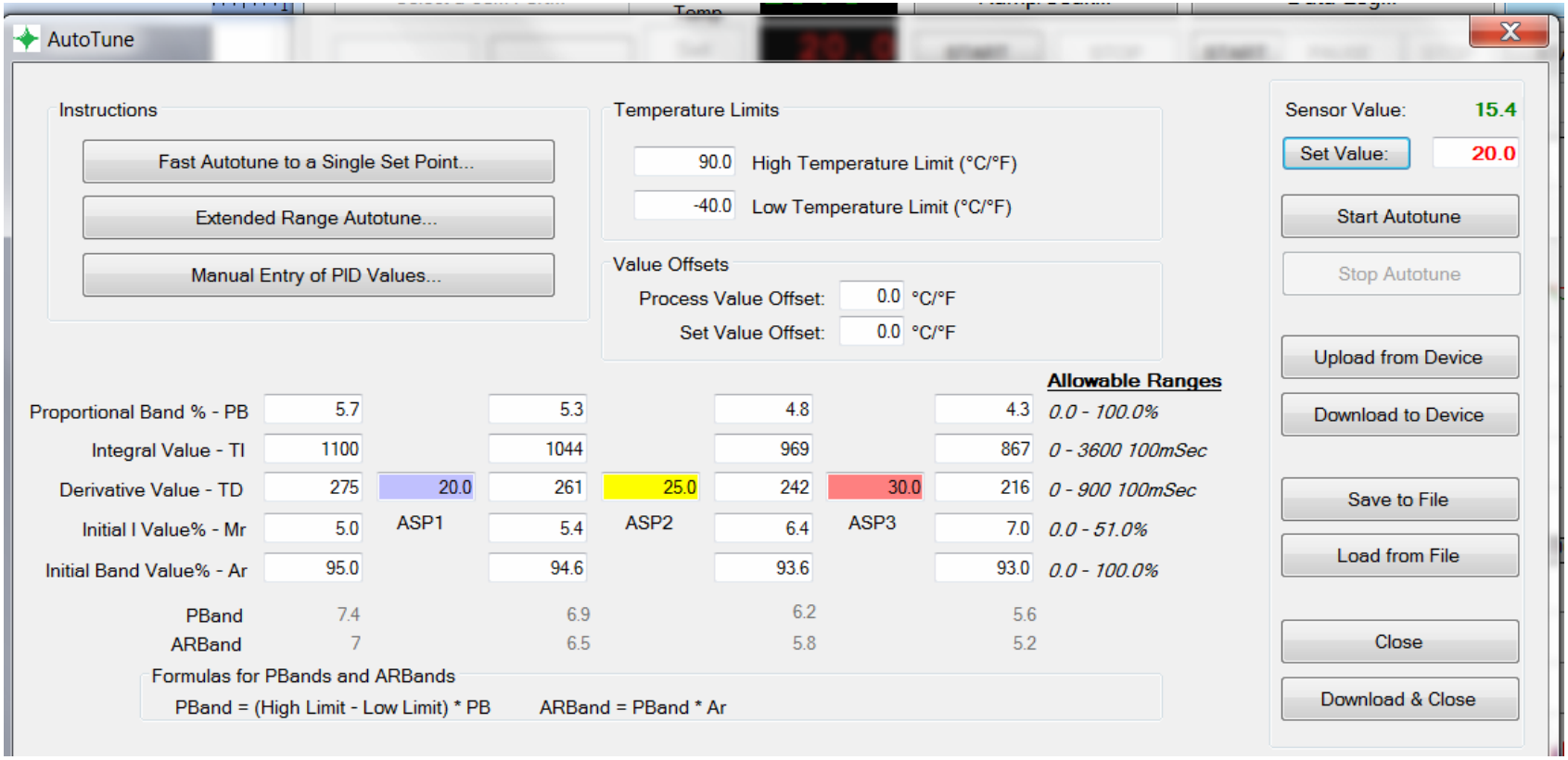


Data Logging

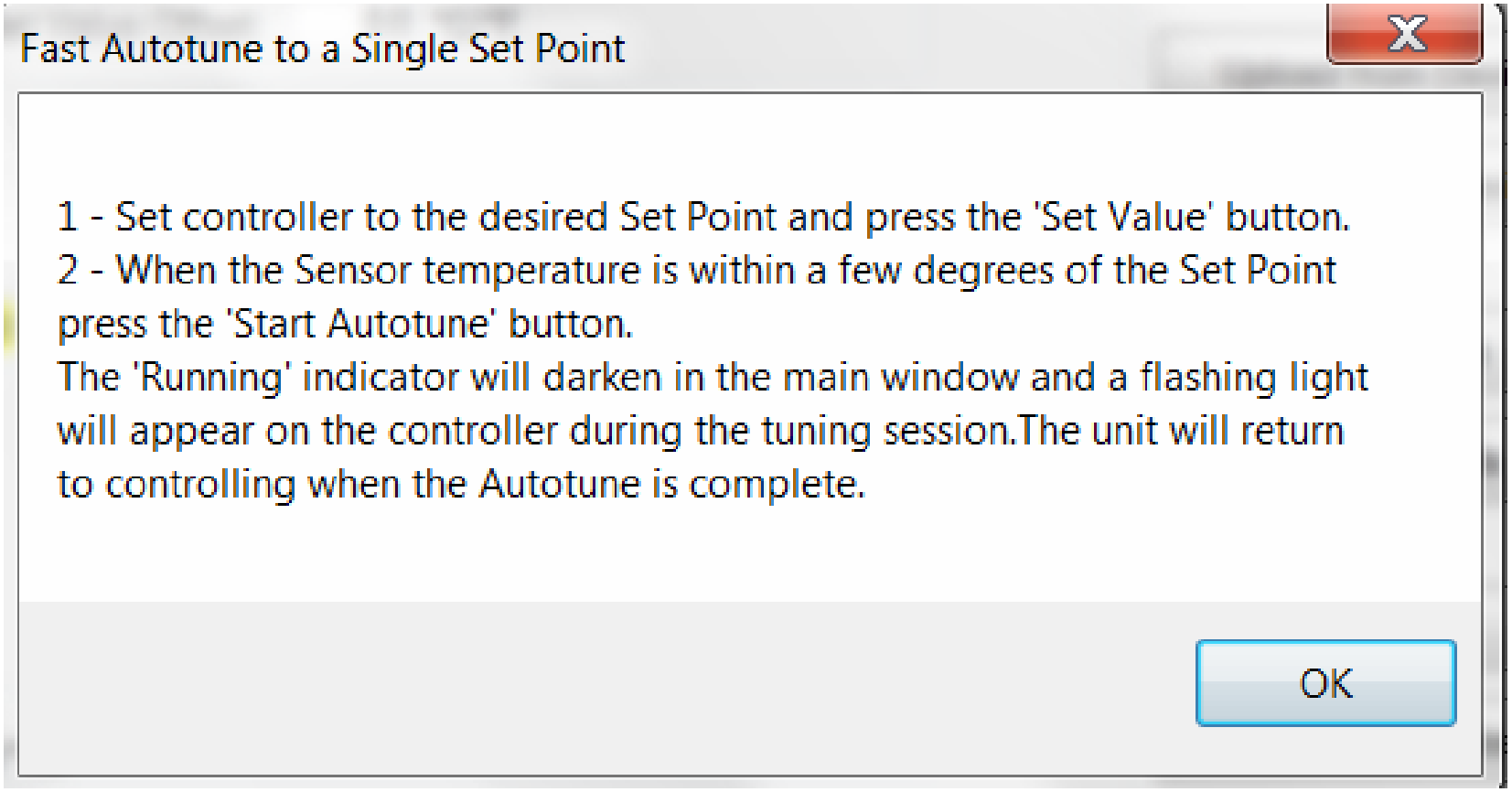
Use the provided tecaLOG software to log data directly to your computer.
Select the file name and location, logging interval and file headings.
The file will be saved (with a back-up) in a *.csv file format.
Open directly into many spreadsheet applications.



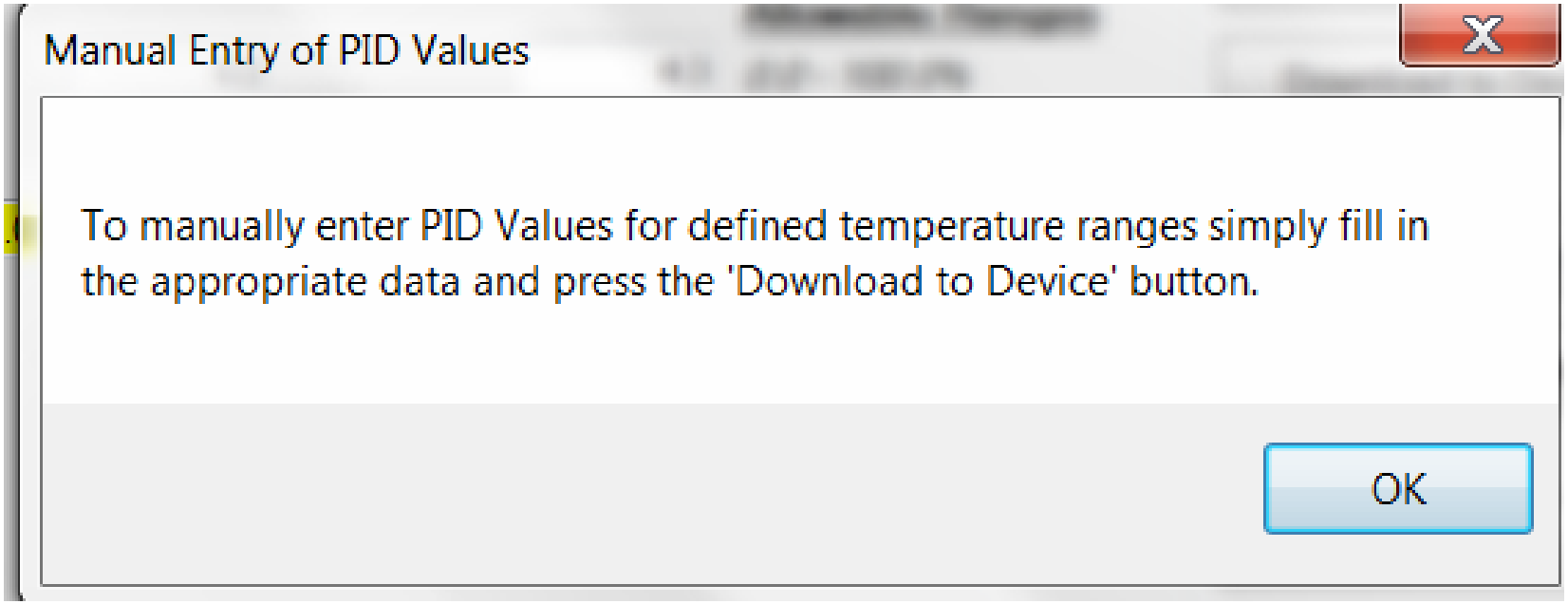
PID Auto Tune window



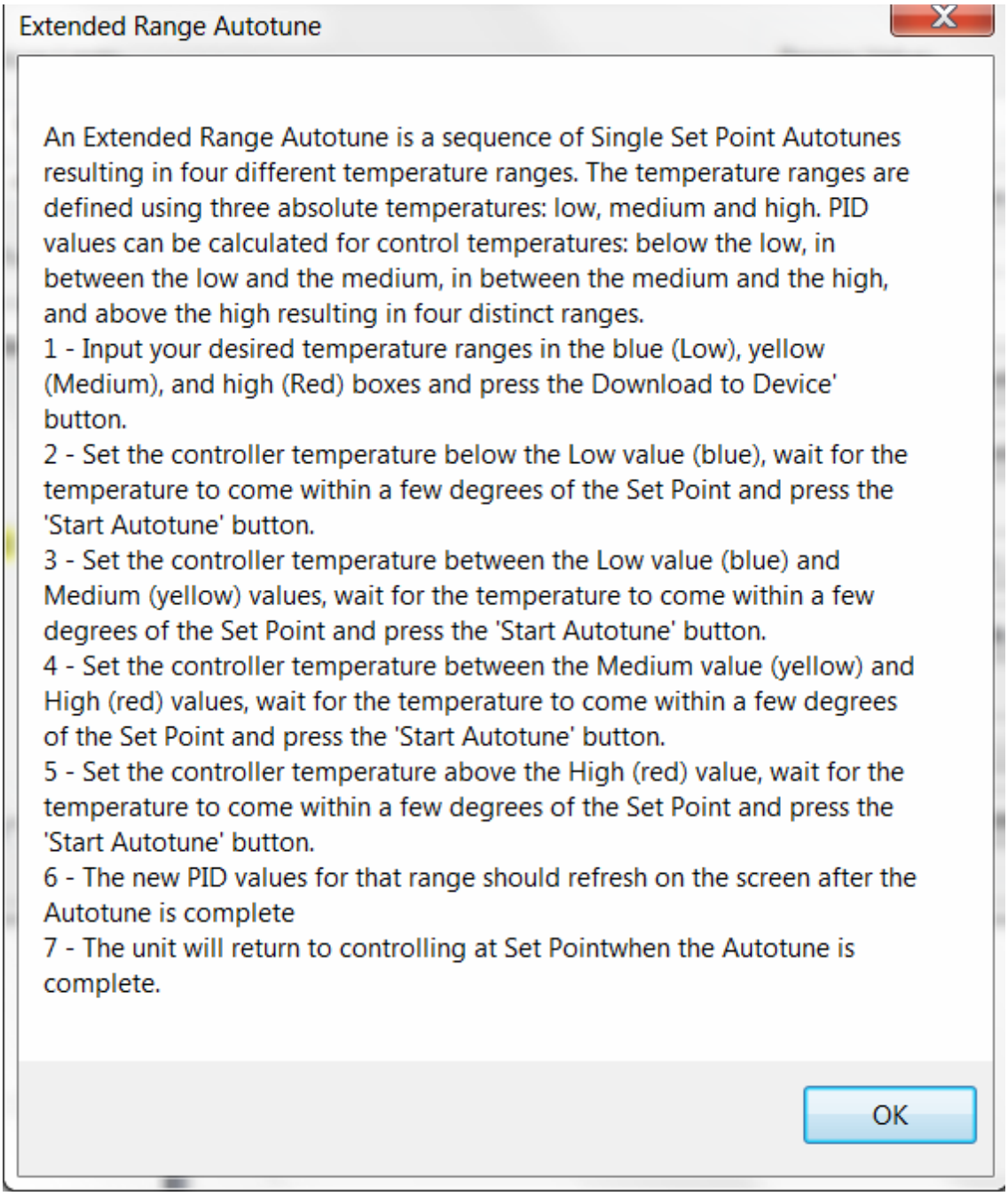
Initiating the Auto Tune function



Manual Entry of PID values



Extended Range Autotune



Notes