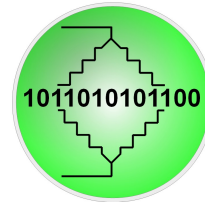Intelligently Designed Systems
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Installation instructions for TP4000ZC Data Logger Keys Software

This program provides basic data acquisition from the TekPower TP4000ZC multimeter. The program is meant to be a product demo and it can be used as the starting point for developing custom TP4000ZC data logging software to address your specific requirements. Contact Intelligently Designed Systems for any installation or operation problems or to discuss customizing and expanding the program to meet your needs.

Requirements

- TekPower TP4000ZC Multimeter with RS-232 output.
- Serial port on computer or USB-RS-232 adapter (e.g. Trendnet TU-S9).
- Windows: Windows XP service pack 3, Windows Vista SP 1, or Windows 7 SP 1.
- Microsoft .NET Framework 4. (Will download automatically if not present)

Installation

- Create a folder on your C:\ drive named "TP4000ZC".
- Extract the zipped download to C:\TP4000ZC and run setup.exe. Close the program the first time it runs using the red X on the window and then restart your computer.
- The program should be accessible from the Start->Programs->IntDSys folder
- If not, right click the TP4000ZCDataloggerKeys icon and create a shortcut.
- Move the shortcut to your desktop and restart your computer.

Operation

- Attach the TP4000ZC meter to a serial port (e.g. COM1, COM2, etc).
- Turn on the TP4000ZC meter and run TP4000ZCDatalogger using the shortcut.
- Pick the COM port from the drop-down combo box that has the TP4000ZC attached.
- Click "Start Reading Meter".
- Adjust the logging period as needed and click the checkbox to "Start Logging Data".
- Click "Quit" when finished.
- The name of the output data file is displayed during operation. It will be based on the date and time that the acquisition was started.

Keystrokes

This version of the data logging software also can be run with keystrokes. The short cut commands are listed below:

Alt-p takes you to the Com Port Selection window. Cursor down to choose the correct port and then hit Enter.

Alt-t takes you to the data logging time period window. You can hit delete a few times to get rid of the current value and type your own milliseconds value and hit Enter.

Alt-m starts reading the meter into the display window. Currently you have to quit the program to stop reading the meter.

Alt-l starts or stops logging the data to a file. You can tab through the controls and get to the label that states whether the data is being saved and what file it is going into.

Alt-r puts the program focus on the meter reading display window.

Alt-a toggles the auto read mode. JAWS will read the display every 5 seconds (or see below) when toggled on and will be silent when toggled off

Alt-u increases the reading period by one half second every time it is pressed

Alt-d decreases the reading period by one half second every time it is pressed

Alt-x exits the program.

Troubleshooting

- After installation, make sure to follow the steps above to close the program and restart.
- If the meter display cannot be read, turn off the meter with the program running, then quit the program. Restart the meter and then the program.
- If the meter display cannot be read or an error occurs when "Start Logging Data" is clicked, make sure you have chosen the correct COM port.