

words, the data transmits over the existing wiring in your home. If, after you have installed your TED correctly and you find that there is no communication between the components, it is very likely a PLC-issue. To resolve this issue, please visit: www.theenergydetective.com/PLC

TED[®]5000 SERIES QUICK START GUIDE

STEP 7 Display Set up. (Optional Display for “C” Models)

- Plug Display AC/DC power supply into a 120V outlet. For ease of set up, temporarily locate it where you can view both your computer and Display simultaneously.
- Plug power supply cable into the back of Stand.
- Carefully insert Display into Charging Stand.
- After 15 seconds, remove Display from Charging Stand and re-insert. This will engage the battery charging system. It will be fully charged in 24 hours.
- Note the Display ID Code located on the back of the display and write it below:

Display ID Code: _____

- Once you enter Display information in the Footprints software (Step 8), relocate the Display to desired location.
 - Display should be kept close to Gateway for best reception.
 - There should be no metal, block, brick, or concrete walls between Gateway and Display. Generally, wood and sheetrock do not cause interference.
- Under System Settings Wizard, click on “Display Settings” to change screen options.

STEP 8 Footprints Software Setup

- Go to the following link to download the TED 5000 Installation Application:
www.theenergydetective.com/install-program
- Plug the Ethernet Cable into the Gateway.
- Plug other end of the Ethernet Cable into your Internet Router. If you don't have a router, it may be plugged directly into your computer. If you plug the Gateway into your computer, you may need to change the IP Address. We highly recommend that you plug the Gateway directly into your router.
- Open an Internet browser. (Internet Explorer, Firefox, Google Chrome)
- Type the following address in the browser address bar: **http://TED5000**
- This will open the Footprints Software program. You can view live dashboard data, modify system setup, modify/set utility rates, and update Gateway, MTU, or Display firmware.
- If you have problems connecting to the Gateway, contact your network service provider or IT professional.

STEP 9 Configure Product IDs

- From EDIT Menu at top of Footprints Screen:
 - Choose System Settings Wizard.
 - Click on Product Identification Tab.
 - Type in your MTU ID(s) - as shown in image to right.**
 - For multiple MTUs, select the “System Layout” tab first and select the correct number of MTUs.
 - You will then identify what each MTU is measuring. (i.e. Load, Generation, Adjusted-Load, Stand-Alone)
 - Your Gateway ID will auto-fill.
 - Type in your Display ID(s) (for “C” models).**
- Click on “Write to Device” Tab.
- Click Update button and settings will be written to the Gateway. **Do not exit until progress bar is complete.**
- Click Finish. The screen will automatically refresh.
- Kilowatt readings should now be seen on the Footprints dashboard and (optional) Display.
- Rates can be customized by following the directions in Step 10.

System Setup Wizard

Welcome! Network Settings Time & Date System Layout **Product Identification** Operational Settings Display Settings Footprints Settings Write To Device

Please enter the Product ID and Descriptions for your devices.

MTU Products

Product ID	Description
MTU 1: 10028B	

Refer to your MTU Product ID number on STEP 2 of this guide.

Gateway Products

Product ID	Description
Gateway: 2002E7	

Display Products

Product ID	Description
Display 1: 102564	

Refer to your Display Product ID number on STEP 7 of this guide.

STEP 10 Utility Rate Wizard Setup

NOTE: IT WILL BE VERY HELPFUL TO HAVE YOUR MOST RECENT ELECTRIC BILL HANDY

- From Edit Menu at the top of Footprints screen:
 - Choose Utility Settings Wizard.
 - Click on Utility Rate Setup Tab.
- Enter Meter Read Date. The date may fluctuate from bill-to-bill by a couple of days. Do not change the date each month, as the next monthly bill will likely adjust for it.
- Enter in the number of energy rate seasons (Summer, Winter, etc.) that your utility uses. If none are used, enter “1.”
- Click on Plan Type Tab.
 - Select your tariff rate structure: Flat, Tiered, Time-of-Use, or Tiered and Time-of-Use.
 - Click Next to enter Utility rates.
- Once Utility rates are entered, click on Additional Charges Tab.
- Select any additional charges that are applied to your monthly utility bill, including taxes and/or surcharges.
- Select Write to Device tab and then click the Update button.

OPTIONAL Export Data

NOTE: TED 5000 STORES AND EXPORTS SECONDS, MINUTES, HOURS, DAYS, AND MONTHLY DATA INDEPENDENTLY.

- Select Export tab from top of dashboard.
- Select the data you wish to export.
- If you have multiple MTUs or a Solar/Wind Installation, the data for each MTU is separate.
- The exported file will be in CSV format (viewable on most all spreadsheets).
- Open the CSV file to view the selected data. **(See image below)**

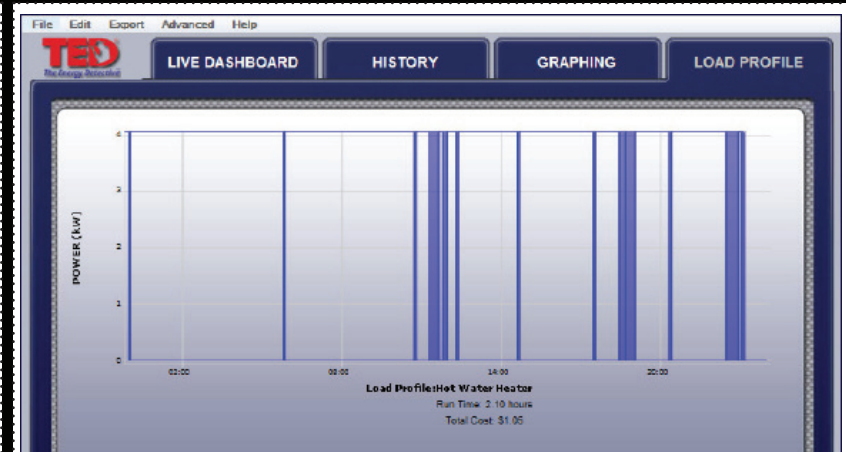
historyexport [Read-Only]

	A	B	C	D	E	F	G	H
	mtu	date	power	cost	min pwr	min pwr time	peak pwr time	"min cost"
1								
2	1	10/18/2010	-15.321	-1.73	-2.486	15:11	2:57	-0.28
3	1	10/19/2010	-15.687	-1.77	-2.901	12:44	7:10	-0.32
4	1	10/20/2010	-16.771	-1.89	-2.412	13:11	7:11	-0.27
5	1	10/21/2010	-16.099	-1.82	-2.373	13:02	5:30	-0.26
6	1	10/22/2010	-6.556	-0.74	-1.658	16:11	5:20	-0.18
7	1	10/23/2010	-12.576	-1.42	-3.058	13:42	5:20	-0.34
8	1	10/24/2010	-11.134	-1.26	-2.557	14:06	5:20	-0.28
9	1	10/25/2010	-14.948	-1.69	-2.425	14:00	0:12	-0.27
10	1	10/26/2010	-15.856	-1.79	-2.385	12:49	1:10	-0.26

OPTIONAL Create Load Profile for a Specific Device in the Home

NOTE: DEVICE SHOULD BE A LARGE APPLIANCE IN THE HOME

- From Edit Menu at top of Footprints Screen:
 - Choose Load Profile Wizard.
 - You can track up for 5 devices. Select “Add” next to a blank device.
 - Name the device a unique name, such as “HVAC” or “Pool Pump”.
 - If you have multiple MTUs, select the MTU that the device is measured under.
 - Most devices have only one Start/Stop stage, however, some devices, such as some HVAC systems, have multiple start-up stages. You may select up to three start/stop stages.
 - Adjust the Percent Error to avoid false-positive readings. The default percentage is 10%.
- For best results, turn off as many appliances as possible prior to setting up Load Profiles.



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- When Load Profile is complete, press the Save button to complete the process.
- You can now click on the Load Profile Tab from the main Dashboard to view Load data.
- You can view each device independently. **(See image to the right)**



Need Additional Help with Installation or Troubleshooting?

- View additional support documents and online support forum. www.theenergydetective.com/support
- View Installation and Troubleshooting Videos. Installation: www.theenergydetective.com/video Troubleshooting: <http://www.theenergydetective.com/troubleshooting>