Python Control of Smart Plugs

This is an article started by Russ Hensel, see "http://www.opencircuits.com/index.php?title=Russ_hensel#About My Articles" About My Articles for a bit of info. The page is only partly finished

Contents [hide]

1 Introduction/Status
2 Help "file" for the Program
3 Python Code
4 Program Design
5 Links
5.1 In this Wiki
5.2 The Internet
5.2.1 General
5.2.2 Matthias Random Stuff and Related
5.2.3 Amazon
5.2.4 Youtube Not Involving Python

Introduction/Status [edit]

Purpose: This is a Graphical User Interface Application is to control TP-LINK HS110 Smart Plug w/Energy Monitoring (***TP-LINK HS110 Smart Plug w/Energy Monitoring - - Amazon.com**) graph the data and otherwise process the data. The application uses the pyHS100 library code. It should work on Windows, Mac, Linux, and the Raspberry Pi. It does require at least Python 3.6 as it uses f-strings (print(f"evaluate this{1+1}")

Program Status: More or less alpha, seems to work, but rough. Intended for those with some Python experience who can add the files to their Python development environment (no install features for this code). Some dependencies will need to be installed, probably prompted by error messages. Editing of the parameter file should be easier for those with Python experience. Users should find some useful documentation in the code, this is still a work in progress. Much code has been lifted from other projects of mine, some artifacts remain.

This Page Status: This page is the "master" page for the project, all other pages link back here, either directly or indirectly. Pages are very early drafts, probably barely worth reading.

Help File: Including install and configuration. SmartPlug Help File

More Documentation: See links below, and code (**russ-hensel/Smart Plug Repository**)

Help "file" for the Program [edit]

This includes download and Install, see: SmartPlug Help File

Python Code [edit]

Available at:

- **russ-hensel/smart_plug: initial**

Program Design [edit]

Links [edit]

In this Wiki [edit]

- SmartPlug Help File
- SmartPlug Technical
- SmartPlug GUI Images

The Internet [edit]

General [edit]

- **pyHS100 · PyPI**
- **GadgetReactor/pyHS100: Python Library to control TPLink Switch (HS100 / HS110)**
- **pyhs100 – PCEasies**
- **There's now a pyhs100 library/utility that works pretty nicely out of the box. ... | Hacker News**

Matthias Random Stuff and Related [edit]

- **Refrigerator heat pump efficiency test - YouTube**
- **(54) Refrigerator heat pump efficiency test - YouTube**
- **Refrigerator heat pump efficiency**
- **Of dehumidifiers, moisture and vapour barriers - experiments**

Amazon [edit]

- **TP-LINK HS110 Smart Plug w/Energy Monitoring - - Amazon.com**
- **TP-Link Mini WiFi Smart Plug, Wi-Fi, Compatible with Alexa, Only Occupies one Socket (HS105), Wall-Light, Electronic-Component-switches, 1-Pack (Renewed) - - Amazon.com**

Youtube Not Involving Python [edit]

- **(54) ESP8266 Smart Power Plug: Control and Monitor device from Internet - YouTube**
- **(54) TP-Link Wi-Fi Smart Plug with Energy Monitoring Introduction Video - YouTube**
- **(54) How to use a smart plug - YouTube**
- **TP Link Smart Plug (HS100) Review - YouTube**
- **TP Link Mini (HS105) vs Belkin Wemo Mini Smart Plug - YouTube**
- **(54) How to Reset TP Link HS100/HS110 Smart Plug - YouTube**
- **(54) TP-Link SMART PLUG REVIEW - HS100 / HS110 Unboxing, Review, HowTo, Kasa, Alexa Tutorial - YouTube**
- **(54) TP-Link Smart Wifi Plug Mini Review - Kasa Smart HS105 Setup - YouTube**
- **(54) TP-Link Smart Wi-Fi Plug Review - Controlled by Google Home - YouTube**
- **(54) TP-Link Wi-Fi Smart Plug with Energy Monitoring Introduction Video - YouTube**
- **(54) TP-Link HS100 WiFi Smart Plug [Unboxing and Setup - YouTube]**
- **TP Link Smart Plug Mini (HS105) Review - YouTube**
- **(54) TP-Link SMART PLUG REVIEW - HS100 / HS110 Unboxing, Review, HowTo, Kasa, Alexa Tutorial - YouTube**

Categories: Python SmartPlug | Python

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