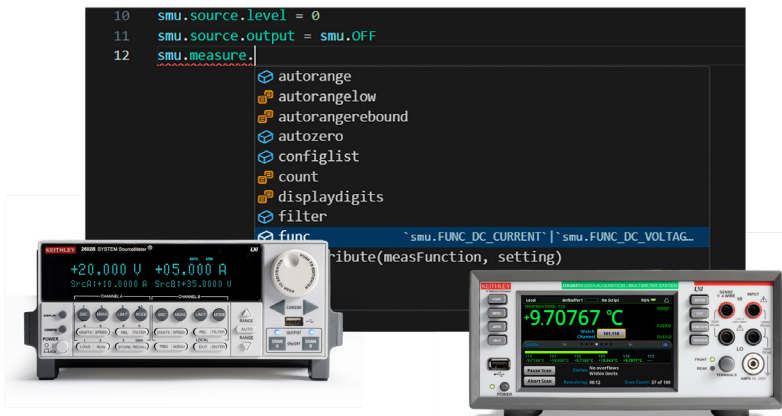


TSP Toolkit Visual Studio Code Extension

DATASHEET



Test Script Processor (**TSP™**) technology is a unique instrument automation command set and programming language. TSP-enabled instruments contain an embedded scripting engine that's capable of executing both instrument control commands and basic programming functionality.

The Keithley TSP Toolkit is a [Visual Studio Code](#) extension that provides rich support for Keithley's TSP technology to edit and execute scripts. The extension includes command-set documentation and language features such as syntax error detection and code navigation, as well as code-completion suggestions, inline help and built-in TSP command documentation.

Key Features

The Keithley TSP Toolkit allows you to:

- Write your code with the assistance of autocompletion and syntax checking.
- Access detailed information on individual commands such as definition, accepted parameters and usage examples.
- Send commands and interact directly with your instruments through the terminal.
- Discover available instruments on your local network.
- Remotely upgrade the instrument firmware.
- Open saved factory scripts to view or edit.
- Leverage all the benefits of TSP scripting more easily than ever.

Applications

- Test automation via embedded script execution
- Scalable test systems
- Synchronized test system control

A New Era in Test Script Development

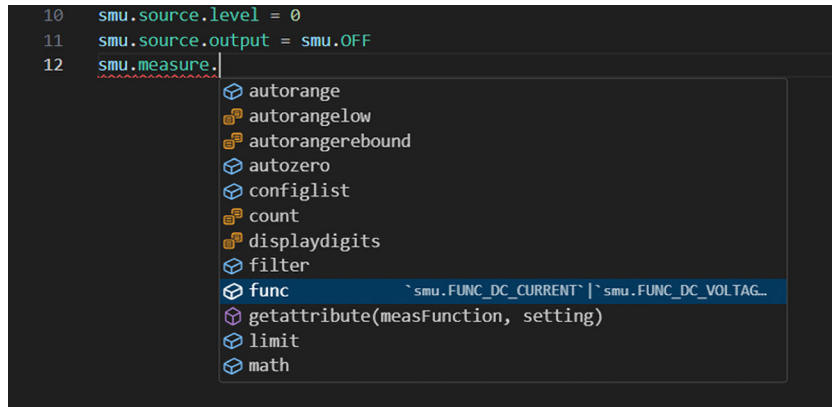
The Keithley TSP Toolkit is an updated script development environment that includes instrument support for a majority of Keithley TSP-enabled instrumentation plus many quality-of-life features that improve the script development experience.

TSP Toolkit features the modern user interface of the Visual Studio Code IDE, complete with syntax-highlighting and the increased readability it affords, along with the convenience of the many extensions available on the VSCode marketplace.

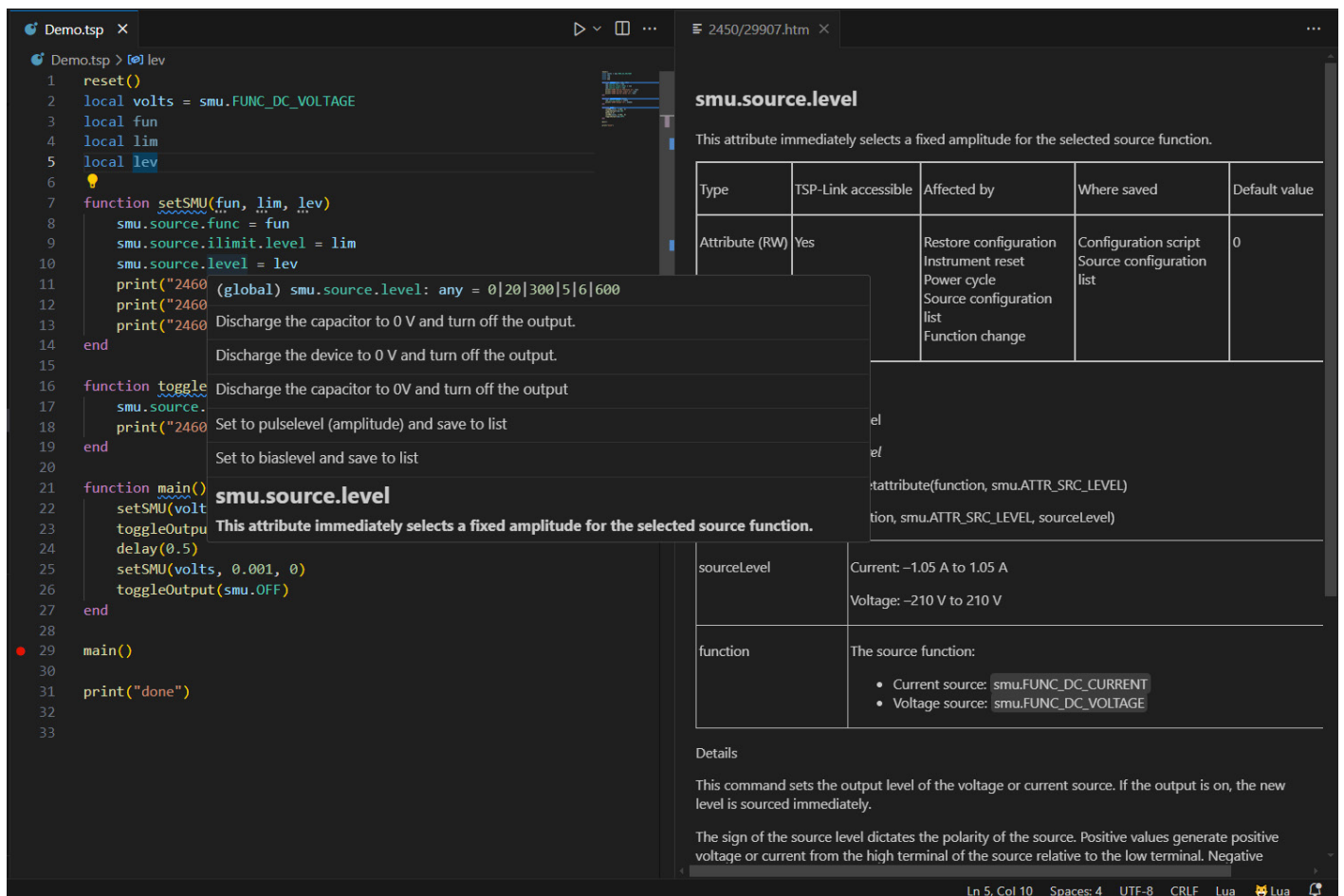
The Keithley TSP Toolkit extension also features autocompletion alongside in-line and hover help, reducing pesky mistakes from copying/pasting TSP commands improperly and eliminating the need to manually parse through dense reference manuals to confirm proper command usage and syntax.

Optimizing Productivity and Increasing Throughput

TSP technology is both an instrument automation command set and programming language. TSP-enabled instruments, like Keithley source measure units (SMU), data acquisition (DAQ) systems and digital multimeters (DMMs), contain an embedded scripting engine that can execute basic programming functionality and instrument control commands.



The autocompletion feature assists with writing code and reducing mistakes.



The help feature eliminates browsing through manuals to confirm proper command usage and syntax.

Transform Your Instrument into a Measurement Solution through Scripting

- Leverage high-level code with instrument control commands.
- Achieve automation with a TSP script that executes at the instrument level.
- Execute script calls from a PC.

TSP technology can initiate tests with a single call from the PC or run the test on the instrument automatically without the PC. This drastically reduces test time compared to traditional testing methods using SCPI commands that require individual commands to be sent from the PC to the instrument.

Supported Instruments

Source Measure Units	Digital Multimeters	Data Acquisition Systems
2400 Graphical Touchscreen Series	DMM7510 7.5-Digit Graphical Sampling Meter	DAQ6510 6.5-Digit Data Acquisition and Logging Multimeter System
2600B Single and Dual Channel Systems	DMM6500 6.5-Digit Multimeter with Graphical Touchscreen	3700A System Switch / Multimeter
2650 Series for High Power		

Install the latest version of the TSP Toolkit VS Code Extension today from the [Microsoft Visual Studio Code Marketplace](#)

Learn More about TSP Toolkit

Visit [the TSP Toolkit product page](#) for the latest information about TSP Toolkit.

For questions, please visit the [TekTalk](#) community or contact your local Tektronix sales office.

Recommended System Requirements and Prerequisites

- 1.6 GHz or faster processor
- 1 GB of RAM
- Windows 10 and 11 (64-bit)
- Linux (Debian): Ubuntu Desktop 20.04, Debian 10
- Linux (Red Hat): Red Hat Enterprise Linux 8, Fedora 36
- Instrument communication interfaces: USB, LAN, GPIB
 - VISA drivers are supported for instrument connectivity and required for USB and GPIB connections

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