

SSP Python Test Executive Features and Benefits

	S CCD Tast From	cutive - Version 1.00	100			Λ	lain GUI shown b	elow.							· ·
					Run Mode	Group	Test Name	Args	Low Limit	High Limit	Comp	Units	Result	Status	1
		Polntic	on Source	<u>5</u> 1	stop on failure	_		9-	1	J	eq		1	Pass	
	o: 1:		6: 6	. 2	Normal	psu	1. PSU1 config ch1	{ 'psu':	1		eq		1	Pass	
	_	in as op	Sign Ou	t 3	Normal	psu	1a. PSU1 ch1 voltage	1	24		eq	volts	24.000	Pass	
Į.	Profile: 0	operator		4	Normal	psu	1b. PSU1 ch1 current	1	0.5		eq	ohms	0.500	Pass	
	demo		- C	5	Normal	psu	1c. PSU1 ch1 vlimit	1	25		eq	volts	25.000	Pass	
	Carial N	la san 201		6	Normal	psu	1d. PSU1 ch1 ilimit	1	0.5		eq	ohms	0.500	Pass	
	Seriai iv	lo. ssp-20	84	7											
	Start tes	st Abort	Passed	8	Normal	psu	2. PSU1 measure ch1	1	-100	400	gele	ohms	0.0001	Pass	
	Ran 70 d	of 70 tests		9			2 51414		44.75	10.05				_	
	Start time: 12:05:03 Run time: 0:00:35.143483 TOTF::192.168.10.11::INDTR - BOUN.VOLDT 0, (8509) 12:0337: End: 18:.INDTR - BOUN.VOLDT (8509) 12:0337: End: 18:.INDTR - BURDAR VOLDT-007 AUTO, DET. (850) 12:0338: End: 59. INDR measure channel 7, Result: -3.288393012-03, End: Pase, Run time: 0:00:00.69386				Normal		3. DMM measure +12V		-11.75	12.25	gele	volts	-1.21		
					Normal	dmm	4. DMM measure -12V		-12.25	11.75	gele	volts	+1.2		
					Normal	dmm	5. DMM measure LED		-23.5	24.5	gele	volts	-3.45		
					Normal	dmm	6. DMM measure +3.3		-3.2	3.4	gele	volts	-3.60		
					Normal	dmm	7. DMM measure +5V		-4.75	5.25	gele	volts	-1.10		
					Normal	dmm	8. DMM measure -5V	ь	-4.75	5.25	gele	volts	+2.6	Pass	
				16			0. CDIO+ -1	O ala	1					D	
					Normal	a	9. GPIO set channel 1				eq		1	Pass	
:					Normal	a	9a. GPIO set channel 1				eq		1	Pass	
,					Normal	a	9b. GPIO set channel 1				eq		1	Pass	
	aa:05:38: Be	wyin: TEARDOWN			Normal	a	9c. GPIO set channel 45				eq		1	Pass	
	12:05:38: En Pass, Run ti	nd: TEARDOWN, B	Result: 1, Status: 18968		Normal	a	10c. GPIO set channel 4				eq		1	Pass	⊕
		ime: 0:00:35.14			Normal	a	11c. GPIO set channel 4				eq		1	Pass	
	Clear	Configs	Logs Popper		Normal	a	10. DAC set channel 2 0				eq		0.0	Pass	
	Clear	Connigs	Logs Repor	15 24	Normal	a	11. DMM measure	13	-0.1	0.1	gele	volts	-3.21	Pass	v
		· Mode	Features Customizabl	e Us	er Login Prof	files			le each u	ser with a					word.
ategory General		Mode All	1	e Us	er Login Prof	files		Provid	le each u	ser with a or or Engir					word.
			Customizabl	sing		re abst	raction layer to ruments.	An ins with a This is	de each un operate strument single lir		ep car	be couces s	o each	user. a minut	e or two
			Simple API u	sing	the hardwai	re abst		Provid Assign An ins with a This is costs i	trument single lin one of the	control st ne of code ne ways S	ep car ep car SP red uratio	uces s	o each oded in softwar	a minute	e or two
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General Hardware Abstraction		All	Simple API u control stan Add non-sta API if desire. Also for non test executive calls to send bypass the Finstrument I	sing dard nda d. -star e in inst	the hardward configuration dard configuration cludes gener rument SCPI	re abston instriction instruction	truments. to the HAL instruments, the l, write and query	An ins with a This is costs if We ca of the As the instru	de each un operator one of the standard	control state of code ne ways Stard configuration Test Ell be available vices usinos into lows into lows into lows into	ep car SP red uration the sation i	n be courses sins.	o each oded in softwar ime an ments. atures, tomers	a a minutore develored cost sar	e or two pment t ving effic g library

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Development	Engineer	Easy to understand test architecture Create tests for multiple DUTs available to the operator to select from a pull-down menu	SSP and customer developers can focus on writing test scripts for DUTs. Just create a configuration file and create test scripts for test steps. Use the HAL API to code even faster. Customers who already have scripts to test their DUTs can use the SSP Python Test Executive to easily automate their tests with the GUI and the benefits listed in this document. Config file specifies: Whether to run, skip or stop on failure for each test step Test name Test group Test script to run for each test step in proper sequence Pass/fail limits and how to evaluate them
			Test Name
		Manually run individual test scripts with a double-click on the GUI	Quickly jump to specific tests to speed up debugging.
Debug	Engineer	Modify test scripts on the fly to quickly troubleshoot	Quickly modify and then run test scripts in the moment.
Deway	Liigilieei	Run Test group	Create unique group names to run through a group of tests with one click.
		Debug Terminal Shell	Interface with DUT, instruments and peripheral devices to validate functionality outside the scripting environment.
		Unique Login Profiles	Ability to configure unique login profiles for Operators. Reports will log operator login name.
		Test Configuration	Load and populate GUI with test paraeters for easy viewing
Production		Automated Test Run Time	Test time for each test step and total time for the entire test sequence is included on each test results file.
		Easy to understand GUI	GUI is clearly labeled and intuitive.
	Operator	Multiple DUT Part Number Selection	The test populates a pull-down menu on the GUI listing all the available test configurations that can be run. Additional configurations can be added at any time.
		Runtime pass/fail indication for each test step as it is run	The test results table indicates whether each test step passes or fails as it is run and overall pass or fail when the test sequence is complete.
		Test Result Reporting	All test results are included in a test results report.
		Logging Functionality	Full write and read communications with instruments, peripherals and DUT are displayed in an onscreen log and saved. Flexibility to customize which data to be sent to the log.

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