

Voltage Taps Database in SQLite

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Voltage Tap Readings Spreadsheet

- Excel spreadsheet

Voltage Drop Readings on Voltage Taps

Measurements @ Current Limiting Resistor Boxes			Measurements @ Voltage Taps Test Box			
Voltage Tap designation	Voltage Reading	Drop Difference	Voltage Tap designation	Voltage Reading	Drop Difference	Voltage Tap Pairs Difference
Date 12/3/2015			Date			
Voltage 5.0V			Voltage			
Current 0.3A			Current			
USCLW (Pos. VCL Warm)	2.8046	-0.0245	USCLW (Pos. VCL Warm)	2.8044	-0.0256	-0.0002
USCLC (Pos. VCL Cold)	2.8291	0.0001	USCLCr (Pos. VCL Cold)	2.8300	0.0009	0.0009
SC2_VT1	2.8290	0.3388	SC2_VT1r	2.8291	0.3294	0.0001
SC2_VT2	2.4902	0.1683	SC2_VT2r	2.4997	0.1779	0.0095
SC2_VT3	2.3219	0.1874	SC2_VT3r	2.3218	0.1877	-0.0001
SC2_VT4	2.1345	0.2760	SC2_VT4r	2.1341	0.2763	-0.0004
SC2_VT5	1.8585		SC2_VT5r	1.8578		-0.0007

Coil 2

Voltage Tap SQLite Database

- Firefox SQLite Manager Add-on

rowid	date	test_voltage_V	current_A	vt_at_CLRB	vt_readings_at_CLRB_V	drop_diff...	vt_at_VTTB	vt_readings_at_VTTB_V	drop_diff...	difference_V	comments
401	2015-12-03	5	0.3	SC2_VT2	2.4902	0.3388	SC2_VT2r	2.4997	0.3294	0.0095	Ground fault 86 Ohms ...
402	2015-12-03	5	0.3	SC2_VT3	2.3219	0.1683	SC2_VT3r	2.3218	0.1779	-0.0001	Ground fault 86 Ohms ...
403	2015-12-03	5	0.3	SC2_VT4	2.1345	0.1874	SC2_VT4r	2.1341	0.1877	-0.0004	Ground fault 86 Ohms ...
404	2015-12-03	5	0.3	SC2_VT5	1.8585	0.276	SC2_VT5r	1.8578	0.2763	-0.0007	Ground fault 86 Ohms ...
405	2015-12-03	5	0.3	SSPL_VT6	1.8576	0.0009	SSPL_VT6r	1.8569	0.0009	-0.0007	Ground fault 86 Ohms ...
406	2015-12-03	5	0.3	SC1_VT7	1.8534	0.0042	SC1_VT7r	1.8524	0.0045	-0.001	Ground fault 86 Ohms ...
407	2015-12-03	5	0.3	SC1_VT8	1.2563	0.5971	SC1_VT8r	1.2566	0.5958	0.0003	Ground fault 86 Ohms ...
408	2015-12-03	5	0.3	SC1_VT9	1.1316	0.1247	SC1_VT9r	1.1321	0.1245	0.0005	Ground fault 86 Ohms ...
409	2015-12-03	5	0.3	SC1_VT10	1.0497	0.0819	SC1_VT10r	1.0501	0.082	0.0004	Ground fault 86 Ohms ...
410	2015-12-03	5	0.3	SC1_VT11	0.8237	0.226	SC1_VT11r	0.8239	0.2262	0.0002	Ground fault 86 Ohms ...
411	2015-12-03	5	0.3	SC1_VT12	0.3442	0.4795	SC1_VT12r	0.3436	0.4803	-0.0006	Ground fault 86 Ohms ...
412	2015-12-03	5	0.3	SC3_SSPL13	0.3433	0.0009	SC3_SSPL...	0.3426	0.001	-0.0007	Ground fault 86 Ohms ...
413	2015-12-03	5	0.3	SC3_VT14	0.3427	0.0006	SC3_VT14r	0.342	0.0006	-0.0007	Ground fault 86 Ohms ...
414	2015-12-03	5	0.3	SC3_VT15	0.0121	0.3306	SC3_VT15r	0.0119	0.3301	-0.0002	Ground fault 86 Ohms ...
415	2015-12-03	5	0.3	SC3_VT16	-0.3303	0.3424	SC3_VT16r	-0.3296	0.3415	0.0007	Ground fault 86 Ohms ...
416	2015-12-03	5	0.3	SC3_VT17	-0.3751	0.0448	SC3_VT17r	-0.3744	0.0448	0.0007	Ground fault 86 Ohms ...
417	2015-12-03	5	0.3	SC3_VT18	-0.4652	0.0901	SC3_VT18r	-0.4641	0.0897	0.0011	Ground fault 86 Ohms ...
418	2015-12-03	5	0.3	SC4_SSPL19	-0.4661	0.0009	SC4_SSPL...	-0.465	0.0009	0.0011	Ground fault 86 Ohms ...
419	2015-12-03	5	0.3	SC4_VT20	-0.4666	0.0005	SC4_VT20r	-0.4655	0.0005	0.0011	Ground fault 86 Ohms ...
420	2015-12-03	5	0.3	SC4_VT21	-0.6912	0.2246	SC4_VT21r	-0.6898	0.2243	0.0014	Ground fault 86 Ohms ...
421	2015-12-03	5	0.3	SC4_VT22	-1.4496	0.7584	SC4_VT22r	-1.4476	0.7578	0.002	Ground fault 86 Ohms ...
422	2015-12-03	5	0.3	SC4_VT23	-2.1122	0.6626	SC4_VT23r	-2.1102	0.6626	0.002	Ground fault 86 Ohms ...
423	2015-12-03	5	0.3	SSPL_VT24	-2.1128	0.0006	SSPL_VT24r	-2.1107	0.0005	0.0021	Ground fault 86 Ohms ...
424	2015-12-03	5	0.3	DSCLC (N...	-2.117	-0.0148	DSCLCr (...	-2.117	0.0063	0	SSPL_VT24 minus DSCL...
425	2015-12-03	5	0.3	DSCLW (...	-2.098	-0.019	DSCLW (...	-2.0981	-0.0189	-0.0001	Ground fault 86 Ohms ...

SQLite For Excel Program

- Program to read same database in Excel
- Provides easier query method than SQLite Manager

O58											
A	B	C	D	E	F	G	H	I	J	K	
1											
2		Database: ..\vt.sqlite									
3		SQL: select * from voltage_taps									
4		Returned: 425 rows									
5											
6		Query									
7											
8	Query result:										
9	date	test voltage_V	current_A	vt_at_CLRB	vt_readings_at_CLRB_V	drop_difference_at_CLRB_V	vt_at_VTTB	vt_readings_at_VTTB_V	drop_difference_at_VTTB_V	difference_V	comments
10	2012-11-02	5	0.327				USCLW (Pos. VCL Warm)	0			No resistor boxes
11	2012-11-02	5	0.327				USCLCr (Pos. VCL Cold)	0.012	-0.012		No resistor boxes
12	2012-11-02	5	0.327				SC2_VT1r	0.012	0		No resistor boxes
13	2012-11-02	5	0.327				SC2_VT2r	0.345	-0.333		No resistor boxes
14	2012-11-02	5	0.327				SC2_VT3r	0.525	-0.18		No resistor boxes
15	2012-11-02	5	0.327				SC2_VT4r	0.714	-0.189		No resistor boxes
16	2012-11-02	5	0.327				SC2_VT5r	0.993	-0.279		No resistor boxes
17	2012-11-02	5	0.327				SSPL_VT6r	0.994	-0.001		No resistor boxes
18	2012-11-02	5	0.327				SC1_VT7r	0.995	-0.001		No resistor boxes
19	2012-11-02	5	0.327				SC1_VT8r	1.598	-0.603		No resistor boxes
20	2012-11-02	5	0.327				SC1_VT9r	1.723	-0.125		No resistor boxes
21	2012-11-02	5	0.327				SC1_VT10r	1.806	-0.083		No resistor boxes
22	2012-11-02	5	0.327				SC1_VT11r	2.034	-0.228		No resistor boxes
23	2012-11-02	5	0.327				SC1_VT12r	2.518	-0.484		No resistor boxes
24	2012-11-02	5	0.327				SC3_SSPL13r	2.519	-0.001		No resistor boxes
25	2012-11-02	5	0.327				SC3_VT14r	2.52	-0.001		No resistor boxes
26	2012-11-02	5	0.327				SC3_VT15r	2.853	-0.333		No resistor boxes
27	2012-11-02	5	0.327				SC3_VT16r	3.198	-0.345		No resistor boxes
28	2012-11-02	5	0.327				SC3_VT17r	3.243	-0.045		No resistor boxes
29	2012-11-02	5	0.327				SC3_VT18r	3.334	-0.091		No resistor boxes
30	2012-11-02	5	0.327				SC4_SSPL19r	3.335	-0.001		No resistor boxes
31	2012-11-02	5	0.327				SC4_VT20r	3.335	0		No resistor boxes
32	2012-11-02	5	0.327				SC4_VT21r	3.562	-0.227		No resistor boxes
33	2012-11-02	5	0.327				SC4_VT22r	4.326	-0.764		No resistor boxes
34	2012-11-02	5	0.327				SC4_VT23r	4.995	-0.669		No resistor boxes
35	2012-11-02	5	0.327				SSPL_VT24r	4.995	0		No resistor boxes
36	2012-11-02	5	0.327				DSCLCr (Neg VCL Cold)	4.995	0		No resistor boxes
37	2012-11-02	5	0.327				DSCLW (Neg. VCL Warm)	5.01	-0.015		No resistor boxes
38	2012-11-07	5	0.336				USCLW (Pos. VCL Warm)	0			No resistor boxes
39	2012-11-07	5	0.336				USCLCr (Pos. VCL Cold)	0.0247	-0.0247		No resistor boxes
40	2012-11-07	5	0.336				SC2_VT1r	0.0247	0		No resistor boxes
41	2012-11-07	5	0.336				SC2_VT2r	0.356	-0.3313		No resistor boxes
42	2012-11-07	5	0.336				SC2_VT3r	0.534	-0.178		No resistor boxes
43	2012-11-07	5	0.336				SC2_VT4r	0.723	-0.189		No resistor boxes
44	2012-11-07	5	0.336				SC2_VT5r	1	-0.277		No resistor boxes
45	2012-11-07	5	0.336				SSPL_VT6r	1.001	-0.001		No resistor boxes
46	2012-11-07	5	0.336				SC1_VT7r	1.002	-0.001		No resistor boxes

SQLite For Excel Program

- Click Query
- Database is updated to show query results
- Returned cell shows number of rows returned

	A	B	C	D	E	F	G	H	I
1									
2		Database:	..\vt.sqlite						
3		SQL:	select date, test_voltage_V, current_A from voltage_taps where Date > '2015-01-01' and Test_voltage_V < 10 and Current_A < 1						
4		Returned:	84 rows						
5									
6			Query						
7									
8		Query result:							
9	date	test_voltage_V	current_A	#N/A					
10	2015-10-08	5	0.3	#N/A					
11	2015-10-08	5	0.3	#N/A					
12	2015-10-08	5	0.3	#N/A					
13	2015-10-08	5	0.3	#N/A					
14	2015-10-08	5	0.3	#N/A					
15	2015-10-08	5	0.3	#N/A					
16	2015-10-08	5	0.3	#N/A					
17	2015-10-08	5	0.3	#N/A					
18	2015-10-08	5	0.3	#N/A					
19	2015-10-08	5	0.3	#N/A					
20	2015-10-08	5	0.3	#N/A					
21	2015-10-08	5	0.3	#N/A					
22	2015-10-08	5	0.3	#N/A					
23	2015-10-08	5	0.3	#N/A					
24	2015-10-08	5	0.3	#N/A					
25	2015-10-08	5	0.3	#N/A					
26	2015-10-08	5	0.3	#N/A					
27	2015-10-08	5	0.3	#N/A					
28	2015-10-08	5	0.3	#N/A					
29	2015-10-08	5	0.3	#N/A					
30	2015-10-08	5	0.3	#N/A					
31	2015-10-08	5	0.3	#N/A					
32	2015-10-08	5	0.3	#N/A					
33	2015-10-08	5	0.3	#N/A					
34	2015-10-08	5	0.3	#N/A					

SQLite Query

VIEW

All

Date

Test voltage (V)

Current (A)

Voltage Taps at CLRБ

Voltage Tap readings at CLRБ (V)

Drop Difference at CLRБ (from previous tap) (V)

Voltage Taps at VTBB

Voltage Tap readings at VTBB (V)

Drop Difference at VTBB (V)

Difference (V)

Comments

WHERE (optional)

Date (YYYY-MM-DD)

Test voltage (V)

Current (A)

Voltage taps at CLRБ

Voltage tap readings at CLRБ (V)

Drop difference at CLRБ (V)

Voltage taps at VTBB

Voltage tap readings at VTBB (V)

Drop difference at VTBB (V)

Difference (V)

Query Box

SQLite Query X

VIEW

- All
- Date
- Test voltage (V)
- Current (A)
- Voltage Taps at CLRBB
- Voltage Tap readings at CLRBB (V)
- Drop Difference at CLRBB (from previous tap) (V)
- Voltage Taps at VTTBB
- Voltage Tap readings at VTTBB (V)
- Drop Difference at VTTBB (V)
- Difference (V)
- Comments

WHERE (optional)

Date	[Dropdown]	[Text]	(YYYY-MM-DD)
Test voltage	[Dropdown]	[Text]	(V)
Current	[Dropdown]	[Text]	(A)
Voltage taps at CLRBB	[Dropdown]	[Dropdown]	
Voltage tap readings at CLRBB	[Dropdown]	[Text]	(V)
Drop difference at CLRBB	[Dropdown]	[Text]	(V)
Voltage taps at VTTBB	[Dropdown]	[Dropdown]	
Voltage tap readings at VTTBB	[Dropdown]	[Text]	(V)
Drop difference at VTTBB	[Dropdown]	[Text]	(V)
Difference	[Dropdown]	[Text]	(V)

#N/A #N/A #N/A #N/A #N/A

Conclusion

- Used by anyone unfamiliar to SQLite commands.
- This method can be applied to any database.

