

Manual Supplement

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This supplement contains information necessary to ensure the accuracy of the above manual. This manual is distributed as an electronic manual on the following CD-ROM:

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Change #1

On page 3-8, replace Table 3-2 with the following:

Table 3-2. DC Volts Measurement Limits

Range	Amplitude	Reading	Upper Limit (V)	Lower Limit (V)
0.22	0		3.0E6	-3.0E-6
0.22	0.219		219.0118E-3	218.9882E-6
0.22	-0.219		-219.0058E-3	-218.9942E-6
2.2	0		3.E-6	-3.0E-3
2.2	2.19		2.190058	2.189942
2.2	-2.19		-2.190052	-2.189948
22	0		30.0E-6	-30.0E-6
22	10		10.00500	9.99499
22	-10		-10.00499	-9.99500
22	21.9		21.90058	21.89942
22	-21.9		-21.90052	-21.89948
220	0		300.0E-6	-300.0E-6
220	219		219.0091	218.9909
220	-219		-219.0085	-218.9915

On page 3-10, replace Table 3-3 with the following:

Table 3-3. AC Volts Measurement Limits

Range	Amplitude	Frequency	Reading	Upper Limit (V)	Lower Limit (V)
0.022	21.9E-3	10		21.953E-3	21.847E-3
0.022	21.9E-3	45		21.938E-3	21.862E-3
0.022	21.9E-3	20000		21.938E-3	21.862E-3
0.022	21.9E-3	50000		21.975E-3	21.825E-3
0.022	21.9E-3	100000		22.06E-3	21.741E-3
0.220	219.0E-3	10		219.379E-3	218.622E-3
0.220	219.0E-3	45		219.16E-3	218.841E-3
0.220	219.0E-3	20000		219.16E-3	218.841E-3
0.220	219.0E-3	50000		219.598E-3	218.403E-3
0.220	219.0E-3	100000		220.076E-3	217.924E-3
2.2	2.19	10		2.19244	2.18756
2.2	2.19	45		2.1912	2.18881
2.2	2.19	20000		2.1912	2.18881
2.2	2.19	50000		2.19251	2.18749
2.2	2.19	100000		2.19748	2.18253
22	21.9	10		21.9229	21.8771
22	21.9	45		21.912	21.8881
22	21.9	20000		21.912	21.8881
22	21.9	50000		21.9229	21.8771
22	21.9	100000		21.9568	21.8433
220	219	10		219.229	218.771
220	219	45		219.120	218.881
220	219	20000		219.120	218.881
220	219	50000		219.568	218.433
220	118	100000		118.640	117.360

On page 3-11, replace Table 3-4 with the following:

Table 3-4. AC Frequency Values

Frequency Value	Measured Value	Lower Limit	Upper Limit
11 Hz		10.9989 Hz	11.0011 Hz
1000 Hz		999.9 Hz	1000.1 Hz
10000 Hz		9.9990E+3 Hz	10.0010E+3 Hz

On page 3-12, replace Table 3-5 with the following:

Table 3-5. 4-Wire Ohm Values

Nominal	Calibrated Value	Measured Value	Difference	Specification
0 Ω				0.001 Ω
1 Ω				0.001 Ω
1.9 Ω				0.002 Ω
10 Ω				0.004 Ω
19 Ω				0.008 Ω
100 Ω				0.01 Ω
190 Ω				0.02 Ω
1000 Ω				0.1 Ω
1900 Ω				0.2 Ω
10000 Ω				1.0 Ω
19000 Ω				2.0 Ω
100000 Ω				10.0 Ω
190000 Ω				20.0 Ω
1000000 Ω				100.0 Ω
1900000 Ω				200.0 Ω
10000000 Ω				4,000.0 Ω
19000000 Ω				10,000.0 Ω

*Note: Calibrated ohm values are measured and stored during calibration. These values can be accessed remotely or from the factory test report supplied with the instrument. This measurement assumes four-wire connection. The measured value is made with a Fluke 8508A or equivalent.

On page 3-13, replace Table 3-6 with the following:

Table 3-6. 2-Wire Ohm Values

Nominal	Calibrated Value	Measured Value	Difference	Specification
0 Ω				0.002 Ω
1 Ω				0.002 Ω
1.9 Ω				0.003 Ω
10 Ω				0.005 Ω
19 Ω				0.009 Ω
100 Ω				0.011 Ω
190 Ω				0.021 Ω
1000 Ω				0.11 Ω
1900 Ω				0.21 Ω
10000 Ω				1.1Ω
19000 Ω				2.2 Ω
100000 Ω				11.0 Ω
190000 Ω				22.0 Ω

On page 3-14, replace Table 3-7 with the following:

Table 3-7. DC Current Readings

Range	Amplitude	Reading	Upper Limit	Lower Limit
0.00022	000.0E+0		20.0E-9	-20.0E-9
0.00022	219.0E-6		219.13E-6	218.871E-6
0.00022	-219.0E-6		-219.09E-6	-218.911E-6
0.0022	0.00E+00		50.0E-9	-50.0E-9
0.0022	2.19E-3		2.19115E-3	2.18886E-3
0.0022	-2.19E-3		-2.19105E-3	-2.18896E-3
0.022	0.00E+00		250.0E-9	-250.0E-9
0.022	21.90E-3		21.9112E-3	21.8888E-3
0.022	-21.90E-3		-21.9107E-3	-21.8893E-3
0.22	000.0E+0		2.5E-6	-2.5E-6
0.22	219.0E-3		219.112E-3	218.888E-3
0.22	-219.0E-3		-219.107E-3	-218.893E-3
2.2	0.00		40E-6	-40E-6
2.2	2.19		2.19157	2.18843
2.2	-2.19		-2.19149	-2.18851

On page 3-16, replace Table 3-8 with the following:

Table 3-8. AC Current Limits

Range	Amplitude	Frequency	Reading	Upper Limit	Lower Limit
0.00022	0.000219	10		219.86E-6	218.14E-6
0.00022	0.000219	20		219.53E-6	218.47E-6
0.00022	0.000219	45		219.47E-6	218.53E-6
0.00022	0.000219	1000		219.47E-6	218.53E-6
0.00022	0.000219	5000		220.18E-6	217.82E-6
0.00022	0.000219	10000		222.69E-6	215.32E-6
0.0022	0.00219	10		2.1947E-3	2.1853E-3
0.0022	0.00219	20		2.1936E-3	2.1864E-3
0.0022	0.00219	45		2.1925E-3	2.1875E-3
0.0022	0.00219	1000		2.1925E-3	2.1875E-3
0.0022	0.00219	5000		2.1947E-3	2.1853E-3
0.0022	0.00219	10000		2.208E-3	2.172E-3
0.022	0.0219	10		21.947E-3	21.853E-3
0.022	0.0219	20		21.925E-3	21.875E-3
0.022	0.0219	45		21.925E-3	21.875E-3
0.022	0.0219	1000		21.925E-3	21.875E-3
0.022	0.0219	5000		21.949E-3	21.851E-3
0.022	0.0219	1000		21.993E-3	21.807E-3
0.022	0.0219	20000		22.08E-3	21.72E-3
0.22	0.219	10		219.42E-3	218.58E-3
0.22	0.219	20		219.25E-3	218.75E-3
0.22	0.219	45		219.25E-3	218.75E-3
0.22	0.219	1000		219.25E-3	218.75E-3
0.22	0.219	5000		219.71E-3	218.29E-3
0.22	0.219	10000		219.98E-3	218.02E-3
0.22	0.219	20000		220.95E-3	217.05E-3
2.2	2.19	10		2.1942	2.1858
2.2	2.19	20		2.1925	2.1875
2.2	2.19	45		2.1925	2.1875
2.2	2.19	1000		2.1925	2.1875
2.2	2.19	5000		2.2149	2.1651
2.2	2.19	10000		2.3045	2.0755

Change #2

On page 3-7, add the following note prior to **DC Voltage Test**:

Note

The Cal Enable switch should be down to enable or up to disable.