Manual Supplement

Manual Title:	381 Calibration	Supplement Issue:	**1**
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This supplement contains information necessary to ensure the accuracy of the above manual.

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Change #1

On pages 8, 9 and 10 replace Tables 2, 3, and 4 with:

Table 2. Performance Tests

Test (Switch Position)	Calibrator Output Value	Res.	Spec.	Cnts.	Err.	UUT Meter Reading Limit		UUT
						Low	High	
Ṽ AC Volts	20 V, 20 Hz	0.1	1.5 %	5	0.8	19.2	20.8	
	10 V, 50 Hz	0.1	1.5 %	5	0.65	9.4	10.7	
	600 V, 50 Hz	0.1	1.5 %	5	9.5	590.5	609.5	
	1000 V, 50 Hz	1	1.5 %	5	20	980	1020	
	10 V, 500 Hz	0.1	1.5 %	5	0.65	9.4	10.7	
	600 V, 500 Hz	0.1	1.5 %	5	9.5	590.5	609.5	
	1000 V, 500 Hz	1	1.5 %	5	20	980	1020	
V̿ DC Volts	-1000 V, 0 Hz	1	1.0 %	5	15	-1015	-985	
	-600 V, 0 Hz	0.1	1.0 %	5	6.5	-606.5	-593.5	
	-10 V, 0 Hz	0.1	1.0 %	5	0.6	-10.6	-9.4	
	10 V, 0 Hz	0.1	1.0 %	5	0.6	9.4	10.6	
	600 V, 0 Hz	0.1	1.0 %	5	6.5	593.5	606.5	
	1000 V, 0 Hz	1	1.0 %	5	15	985	1015	
Ω Ohms	0 Ω	0.1	1.0 %	5	0.5	-0.5	0.5	
	10 Ω	0.1	1.0 %	5	0.6	9.4	10.6	
	100 Ω	0.1	1.0 %	5	1.5	98.5	101.5	
	590 Ω	0.1	1.0 %	5	6.4	583.6	596.4	
	1000 Ω	1	1.0 %	5	15	985	1015	
	3000 Ω	1	1.0 %	5	35	2965	3035	
	6000 Ω	1	1.0 %	5	65	5935	6065	
	10 kΩ	0.01	1.0 %	5	0.15	9.85	10.15	
	30 kΩ	0.01	1.0 %	5	0.35	29.65	30.35	
	60 kΩ	0.01	1.0 %	5	0.65	59.35	60.65	

Table 2. Performance Tests (cont.)

Test (Switch Position)	Calibrator Output Value	Res.	Spec.	Cnts.	Err.	UUT Meter Reading Limit		UUT
						Low	High	
Hz ~ A AC Amps (with 50-Turn Coil)	2 A, 10 Hz	0.1	2.0 %	5	2.5	97.5	102.5	
	0.2 A, 50 Hz	0.1	2.0 %	5	0.7	9.3	10.7	
	2 A, 50 Hz	0.1	2.0 %	5	2.5	97.5	102.5	
	12 A, 50 Hz	0.1	2.0 %	5	12.5	587.5	612.5	
	18 A, 50 Hz	0.1	2.0 %	5	18.5	881.5	918.5	
	19.5 A, 50 Hz	0.1	2.0 %	5	20	955.0	995.0	
	0.2 A, 500 Hz	0.1	5.0 %	5	1	9.0	11.0	
⎓ A DC Amps (with 50-Turn Coil)	-19.5 A, 0 Hz	0.1	2.0 %	5	20	-995.0	-955.0	
	-12 A, 0 Hz	0.1	2.0 %	5	12.5	-612.5	-587.5	
	-2 A, 0 Hz	0.1	2.0 %	5	2.5	-102.5	-97.5	
	-0.2 A, 0 Hz	0.1	2.0 %	5	0.7	-10.7	-9.3	
	0 A, 0 Hz	0.1	2.0 %	5	0.5	-0.5	0.5	
	0.2 A, 0 Hz	0.1	2.0 %	5	0.7	9.3	10.7	
	2 A, 0 Hz	0.1	2.0 %	5	2.5	97.5	102.5	
	12 A, 0 Hz	0.1	2.0 %	5	12.5	587.5	612.5	
	18 A, 0 Hz	0.1	2.0 %	5	18.5	881.5	918.5	
	19.5 A, 0 Hz	0.1	2.0 %	5	20	955.0	995.0	
Hz ~ A Frequency (with 50-Turn Coil)	0.1 A, 50 Hz	0.1	0.5 %	5	0.75	49.3	50.8	

Table 3. Flexible Current Probe Performance Tests

Test (Switch Position)	Calibrator Output Value	Res.	Spec.	Cnts.	Err.	UUT Meter Reading Limit		UUT
						Low	High	
AAC/R-coil	0.2 A, 50 Hz [1]	0.1	3.0 %	5	0.8	9.2	10.8	
	12 A, 50 Hz [1]	0.1	3.0 %	5	18.5	581.5	618.5	
	19.9 A, 50 Hz [1]	0.1	3.0 %	5	30.4	964.6	1025.4	
	75 mV, 50 Hz [2]	1	3.0 %	5	80	2420	2580	
	0.2 A, 500 Hz [1]	0.1	3.0 %	5	0.8	9.2	10.8	
	750 mV, 500 Hz [2]	1	3.0 %	5	80	2420	2580	
Freq./R-coil	50 Hz, 0.4 A [1]	0.1	0.5 %	5	0.75	49.3	50.8	

[1] To 50-Turn Coil

[2] Simulated by voltage

Required Equipment

The equipment listed in Table 4 is required for performance tests and calibration adjustment.

Table 4. Required Equipment

Equipment	Required Characteristics	Recommended Model
Calibrator	4.5-digit resolution	Fluke 552xA Calibrator
Wired coil	50 turns	5500A/COIL
Test Probe for iFlex	2 mm to 4 mm Slim reach probe	TP2, PN650892
Test Lead	Test Lead w/retractable sheath	6358, PN1903307