

Testreport
376897

Unit under Test : Fluke 175 Digital Multimeter
Serial No : Sample
Customer : Sample Customer
Inventory No : 989
Date : 15.11.2010
Operator : Sample

TRACEABILITY INFORMATION

Instruments used:	Serial No:	Inventory No:	Cal Due Date:
Fluke 5020A	A52024	LAB-195	25.01.2011
Fluke 5500A	9345007	LAB-307	25.02.2011

All listed result are direct traceable to the Swiss Federal Office of Metrology, as far as listed in the uncertainty table of the SCS Certificate.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approx 95%.

SUMMARY OF LAST RECORDED CAL DATA

This certificate records the calibration status.
Points where %Tol exceeds the adjustment threshold are marked with a "M".
Points where %Tol exceeds the specification limit are marked with a "F".

Number of Test Marginal: 0
Number of Test Failed: 0

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TEST	RANGE	UUT INDICATED	SYSTEM ACTUAL	MODIFIER	ERROR	ERROR (%TOL)	M F
Actual Ambient Temp. 23.1 ±0.5°C / Humidity 34.7%							
Marginal limit 85% of UUT Tol.							
FLUKE 175: Verification Procedure -----							
All Tests refer to UUT 360 Days Specifications as per User Manual							
Display Test:							
1							Pass
Result of Operator Evaluation							
AC Voltage Test:							
600mV Range:							
2	600	300.1mV	300.00mV	45Hz	0.033 %		3
3	600	297.6mV	300.00mV	1kHz	-0.800 %		38
6V Range:							
4	6.0	4.995V	5.0000V	45Hz	-0.100 %		9
5	6.0	4.996V	5.0000V	500Hz	-0.080 %		8
6	6.0	4.958V	5.0000V	1kHz	-0.840 %		41
60V Range:							
7	60	49.96V	50.000V	45Hz	-0.080 %		8
8	60	50.08V	50.000V	1kHz	0.160 %		8
600V Range:							
9	600	300.0V	300.00V	45Hz	0.00 ppm		0
10	600	600.9V	600.00V	1kHz	0.150 %		7
1000V Range:							
11	1000	997V	1000.0V	45Hz	-0.300 %		23
12	1000	1002V	1000.0V	1kHz	0.200 %		9
Frequency Test:							
13		20.00Hz	20.000Hz	1.5V	0.00 ppm		0
14		50.00kHz	50.000kHz	5V	0.00 ppm		0

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DC Voltage Test:							
6V Range:							
15	6	5.000V	5.0000V		0.00 ppm	0	
16	6	-5.000V	-5.0000V		0.00 ppm	0	
60V Range:							
17	60	50.00V	50.000V		0.00 ppm	0	
600V Range:							
18	600	500.0V	500.00V		0.00 ppm	0	
1000V Range:							
19	1000	1000V	1000.0V		0.00 ppm	0	
20	1000	-1000V	-1000.0V		0.00 ppm	0	
600mV Range:							
21	600	30.0mV	30.00mV		0.00 ppm	0	
22	600	-299.9mV	-300.00mV		-0.033 %	15	
23	600	599.8mV	600.00mV		-0.033 %	18	
Resistance Test:							
600 Ohm Range:							
24	600	19.0Ω	19.00Ω		0.00 ppm	0	
25	600	190.1Ω	190.00Ω		0.053 %	5	
26	600	500.0Ω	500.00Ω		0.00 ppm	0	
6 kOhm Range:							
27	6	1.901kΩ	1.9000kΩ		0.053 %	6	
60 kOhm Range:							
28	60	19.00kΩ	19.000kΩ		0.00 ppm	0	
600 kOhm Range:							
29	600	190.0kΩ	190.00kΩ		0.00 ppm	0	
6 MOhm Range:							
30	6.0	1.900MΩ	1.9000MΩ		0.00 ppm	0	
50 MOhm Range:							
31	50	20.00MΩ	20.000MΩ		0.00 ppm	0	

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TEST	RANGE	UUT INDICATED	SYSTEM ACTUAL	MODIFIER	ERROR	ERROR (%TOL)	M F
Capacitance Test:							
1000 nF Range:							
32	1000	900nF	900.0nF		0.00 ppm	0	
10 uF Range:							
33	10	8.99µF	9.000µF		-0.111 %	8	
100 uF Range:							
34	100	89.9µF	90.00µF		-0.111 %	8	
10000 uF Range:							
35	10000	901µF	900.0µF		0.111 %	8	
DIODE TEST:							
36		Beeper ON					Pass
37		Beeper OFF					Pass
Current Test:							
60mA Range:							
38	60	3.01mA	3.000mA		0.333 %	17	
39	60	49.99mA	50.000mA		-0.020 %	2	
40	60	-49.96mA	-50.000mA		-0.080 %	8	
41	60	3.01mA	3.000mA	45Hz	0.333 %	13	
42	60	49.98mA	50.000mA	1kHz	-0.040 %	3	
400mA Range:							
43	400	399.9mA	400.00mA		-0.025 %	2	
44	400	399.4mA	400.00mA	1kHz	-0.150 %	10	
6A Range:							
45	6	4.000A	4.0000A		0.00 ppm	0	
46	6	-3.997A	-4.0000A		-0.075 %	7	
47	6	4.000A	4.0000A	45Hz	0.00 ppm	0	
10A Range:							
48	10	9.00A	9.000A		0.00 ppm	0	
49	10	8.97A	9.000A	45Hz	-0.333 %	18	

End of FLUKE 175: Verification Procedure