

MULTIMETER ACCURACY VERIFICATION						
	Unit	Reference Accuracy	MASTECH 32-800/MS2010B		UNI-T UT210E	
SPEC %				0.7%		0.7%
2.49856	VDC	0.0015%	2.492	-0.26	2.50	0.06
5.00377	VDC	0.0015%	4.98	-0.48	5.01	0.12
7.49461	VDC	0.0015%	7.46	-0.46	7.51	0.21
9.99908	VDC	0.0015%	9.95	-0.49	10.02	0.21
SPEC%				0.8%		1%
3.5355	V RMS	0.25%	3.53	-0.241	3.55	0.409
-1 dB Low	Hz		8		6	
-1 dB Hi	kHz		4.3		2.1	
LPF -11dB	kHz		1.0			
LPF -40dB	kHz		5.0			
SPEC %	Ω			1.0%		1.0%
10.0	Ω	0.01%	9.9	-1.00	9.9	-1.00
100	Ω	0.01%	99.8	-0.20	100.3	0.30
1000	Ω	0.01%	997	-0.30	1002	0.20
5000	Ω	0.02%	4990	-0.20	5000	0.00
10,000	Ω	0.01%	9990	-0.10	10010	0.10
100,000	Ω	0.01%	99900	-0.10	100100	0.10
Continuity	Ω		<52		<50	
Test V	w/11M Ω	0.03%	0.236 V		0.532 V	
Test V	w/100k Ω	0.03%	0.222 V		0.082 V	
Test V	w/Diode	0.03%	1.711 V		3.222 V	
24.0	°C	+/-0.1°C	23	-1°C		
SPEC %	mA/A RMS			1.0%		2.0%
1.0033	mA RMS	0.5%	0.98	-2.32	0	-100.00
3.3005	mA RMS	0.5%	3.30	-0.02	0	-100.00
10.255	mA RMS	0.5%	10.45	1.90	9	-12.24
30.076	mA RMS	0.5%	30.63	1.84	28	-6.90
75.05	mA RMS	0.5%	76.4	1.80	72	-4.06
150.12	mA RMS	0.5%	151.8	1.12	145	-3.41
351.60	mA RMS	0.5%	354.9	0.94	345	-1.88
0.50194	A RMS	0.5%	0.502	0.01	0.495	-1.38
0.7215	A RMS	0.5%	0.721	-0.07	0.719	-0.35
0.9977	A RMS	0.5%	0.998	0.03	0.981	-1.67
1.955	A RMS	0.5%	1.956	0.05	1.930	-1.28
60	Hz	0.5 PPM	59.9	49.6% DC		
270	kHz	0.5 PPM	269.8k	41.3% DC		
SPEC %	pF			4.0%		4.0%
180	pF	0.25%	260	44.4	188	4.44
1000	pF	1%	1270	27.0	1013	1.30
1000	pF	0.5%	1270	27.0	1008	0.80
4.00	nf	1%	4.23	5.75	4.04	1.00
10.0	nf	1%	10.18	1.80	10.07	0.70
40.0	nf	1%	40.20	0.50	40.0	0.00



The reference parameters are in green

The accuracies outside of the specification values (SPEC %) are shown in red