

**U1253B-02**

**S E R V I C E N O T E**

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Supersedes:  
NONE

**U1253B - True RMS OLED Multimeter**

**Serial Numbers: ALL**

**Performance Verification Test Points Update at User's and Service Guide**

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
NONE		

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:	
<b>INFORMATION ONLY</b>	
AUTHOR: SW	PRODUCT LINE: WC
ADDITIONAL INFORMATION:	

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**Situation:**

Performance Verification Test Points update at Agilent U1253B User's and Service Guide, 4<sup>th</sup> Edition.

These new test points listed will replace the previous recommended test points at Table 6-2 Performance verification tests, Agilent U1253B User's and Service Guide. The changes are highlighted in **bold** at below table:

Step	Test Function	Range	Previous Test Point		New Test Point			
			5520 Output	Error from nominal 1 year U1253B	5520 Output	Error from nominal 1 year U1253B		
1	Turn the rotary switch to the $\sim$ V position <sup>[1]</sup>	5 V	<b>5 V, 20 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>4.5 V, 20 kHz</b>	<b><math>\pm 169.5</math> mV</b>		
			<b>5 V, 30 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>4.5 V, 30 kHz</b>	<b><math>\pm 169.5</math> mV</b>		
			<b>5 V, 100 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>4.5 V, 100 kHz</b>	<b><math>\pm 169.5</math> mV</b>		
		50 V	<b>50 V, 20 kHz</b>	<b><math>\pm 1.87</math> V</b>	<b>45 V, 20 kHz</b>	<b><math>\pm 1.695</math> V</b>		
			<b>50 V, 30 kHz</b>	<b><math>\pm 1.87</math> V</b>	<b>45 V, 30 kHz</b>	<b><math>\pm 1.695</math> V</b>		
			<b>50 V, 100 kHz</b>	<b><math>\pm 1.87</math> V</b>	<b>45 V, 100 kHz</b>	<b><math>\pm 1.695</math> V</b>		
5	Press SHIFT to select AC V measurement <sup>[1]</sup>	5 V	<b>5 V, 20 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>4.5 V, 20 kHz</b>	<b><math>\pm 169.5</math> mV</b>		
			<b>5 V, 100 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>4.5 V, 100 kHz</b>	<b><math>\pm 169.5</math> mV</b>		
		50 V	<b>50 V, 20 kHz</b>	<b><math>\pm 1.87</math> V</b>	<b>45 V, 20 kHz</b>	<b><math>\pm 1.695</math> V</b>		
			<b>50 V, 100 kHz</b>	<b><math>\pm 1.87</math> V</b>	<b>45 V, 100 kHz</b>	<b><math>\pm 1.695</math> V</b>		
		7	Press SHIFT to select AC mV measurement <sup>[1]</sup>	50 mV	<b>50 mV, 30 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>45 mV, 30 kHz</b>	<b><math>\pm 1.695</math> mV</b>
					<b>50 mV, 100 kHz</b>	<b><math>\pm 187.0</math> mV</b>	<b>45 mV, 100 kHz</b>	<b><math>\pm 1.695</math> mV</b>
500 mV	<b>500 mV, 30 kHz</b>			<b><math>\pm 18.7</math> mV</b>	<b>450 mV, 30 kHz</b>	<b><math>\pm 16.95</math> mV</b>		
	<b>500 mV, 100 kHz</b>			<b><math>\pm 18.7</math> mV</b>	<b>450 mV, 100 kHz</b>	<b><math>\pm 16.95</math> mV</b>		
8	Turn the rotary switch to the $\Omega$ position	500 M $\Omega$	<b>500 M<math>\Omega</math></b>	<b><math>\pm 40.1</math> M<math>\Omega</math></b>	<b>450 M<math>\Omega</math></b>	<b><math>\pm 36.1</math> M<math>\Omega</math></b>		

Please refer Agilent Website for the latest revision of Agilent U1253B User's and Service Guide (English version), when performing the performance verification test.

**Solution/Action:**  
Information Only.