U1253A-06 S E R V I C E N O T E

Supersedes: NONE

U1253A True RMS OLED Multimeter

Serial Numbers: ALL

U1253A (Blue series) unit exchange will be replaced by U1253B (Orange series) if U1253A runs out of inventory.

Parts Required: P/N Description

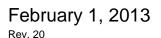
Qty.

NONE

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:				
INFORMATION ONLY				
INTERNAL ONLY DOCUMENT				
[]] Calibration Required	PRODUCT LINE: WC			
X Calibration NOT Required	AUTHOR: SW			
ADDITIONAL INFORMATION:				

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Situation:

U1253A has been discontinued.

1) U1253A (Blue color) repair strategy is unit exchange. It will be replaced by U1253B (Orange color) if U1253A runs out of inventory.

Refer to table below for the unit exchange replacement part number:

Description	U1253A	U1253B	
Unit exchange part	U1253-66001	U1253-66002	

2) The features of both U1253A and U1253B are similar, with the following exceptions:

Feature	U1253A	U1253B		
Battery Type Voltage Level Selection	-	V		
DC filter option	-	V		
Temperature unit selection lock	-	V		
Short/open continuity	-	V		
Resistance Offset Compensation (Smart Ohm)	-	V		
Input Impedance	Please see the Input Impedance Table below for detailed differences			
AC Voltage and AC+DC voltage specifications	Please see the AC voltage and AC+DC voltage specifications below for detailed differences			

Input Impedance table

Function	Range	U1253A	U1253B
DC Voltage	50 mV to 1000 mV	> 1 GΩ	10 ΜΩ
	5V to 1000V 10MΩ (nominal), with		10 M Ω (nominal), with 10 M Ω
		$1.1M\Omega$ in parallel at dual	in parallel at dual display or
		display	when the input voltage is >+3
			V or <-2 V
AC Voltage	50 mV to 1000 mV	> 1 GΩ	10 M Ω in parallel with <100pF
	5V to 1000V	1.1 M Ω (nominal) in	
		parallel with <100 pF	
AC + DC	50 mV to 1000 mV	> 1 GΩ	10 ΜΩ
Voltage	5V to 1000V	1.1 M Ω (nominal) in	10 M Ω (nominal) in parallel
		parallel with <100 pF	with 10 M Ω , < 100 pF

	ACCURACY ± (% of reading + No. of Least Significant Digit)					
	U1253A			U1253B		
RANGE	1 kHz ~ 10 kHz	10 kHz ~ 20 kHz	20 kHz~100 kHz	1 kHz ~ 5 kHz	5 kHz ~ 15 kHz	15 kHz ~ 100 kHz
50.000 mV	0.7+40			0.7+40		
500.00 mV						
1000.0 mV				0.4+25	0.75+40	
5.0000 V				0.6+25		
50.000 V		0.75+40	3.5+120		1.5+40	3.5+120
500.00 V	0.4+25	1.5+40	3.5+120	0.4+25	N/A	N/A
1000.0 V	0.4+40	1.5+40	N/A	0.4+40	N/A	N/A

AC Voltage Specifications

AC+DC Voltage Specifications

	ACCURACY ± (% of reading + No. of Least Significant Digit)					
	U1253A			U1253B		
RANGE	1 kHz ~ 10 kHz	10 kHz ~ 20 kHz	20 kHz~100 kHz	1 kHz ~ 5 kHz	5 kHz ~ 15 kHz	15 kHz~100 kHz
50.000 mV	0.7+60	0.8+60	3.5+220	0.7+60	0.8+60	3.5+220
500.00 mV						
1000.0 mV				0.4+30	0.8+45	
5.0000 V				0.6+30		
50.000 V		0.8+45	3.5+125		1.5+45	3.5+125
500.00 V	0.4+30	1.5+45	3.5+125	0.4+30	N/A	N/A
1000.0 V	0.4+45	1.5+45	N/A	0.4+45	N/A	N/A

More detail information of the specification, please refer to the respective product User's and Service Guide.

Solution/Action:

Information only.