

Manual Supplement

Manual Title: 287/289 Users
Print Date: June 2007
Revision/Date:

Supplement Issue: **6**
Issue Date: 4/08
Page Count: 11

This supplement contains information necessary to ensure the accuracy of the above manual. This manual is distributed as an electronic manual on the following CD-ROM:

CD Title: 287/289
CD Rev. & Date: 10/2007
CD PN: 2748872

Change #1, 44790

On page 17, replace Figure 6 with the following:

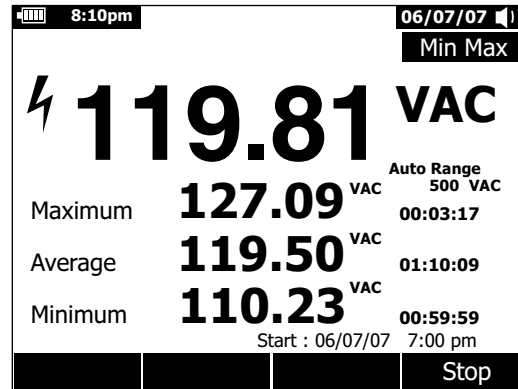


Figure 6. MIN MAX Record Display

Following the Note, replace the three paragraphs with the following:

To save the MIN MAX screen data, the MIN MAX session must be ended by pressing the softkey labeled **Stop**. Next press the soft key labeled **Save**. A dialog box opens where the default filename can be selected or another name assigned. Press the soft key labeled **Save** to store the MIN MAX screen data. MIN MAX can not be continued at this point. Press the soft key labeled **Close** to exit the MIN MAX mode.

On page 18, replace Figure 7 with the following:

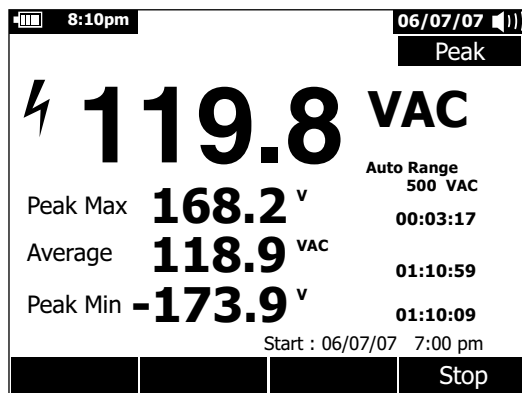


Figure 7. Peak Record Display

Following the Note, replace the first paragraph with the following:

To save peak screen data, the peak capture session must be ended by pressing the soft key labeled **Stop**. Next press the soft key labeled **Save**. A dialog box opens where the default filename can be selected or another name assigned. Press the soft key labeled **Save** to store the Peak screen data. Peak capture can not be continued at this point. Press the soft key labeled **Close** to exit the Peak capture mode.

On page 20, add the following to the last paragraph on this page.

Moving the rotary switch between V and mV while in relative dBm or dBv mode does not disable the dB measurement. This allows continuous measurements over a wide range of input voltage.

On page 22, following Figure 11, delete the second paragraph.

On page 27, following the Warning, in the first sentence,

Change: 80BK
To: 80BK-A

On page 32, in the first and second paragraphs,

Change: **Cont.**
To: **Beeper**

On page 35, replace the last sentence at the bottom of the page with:

RANGE and MIN MAX are disabled when the Meter is setup for diode test.



On page 46, in the first paragraph on the right column, replace the second sentence with the following:

For the record mode, the timeout period is set to five minutes and is enabled only when the Auto Power Off timeout is set to a time (not set to Off).

On page 47, under *Storing Individual Measurement Data*, replace the third sentence in the first paragraph with the following and delete the last paragraph that starts “For MIN MAX and Peak”...

Two choices allow either saving the data under a previously selected name or choosing another name by pressing the soft key labeled **+Name**.

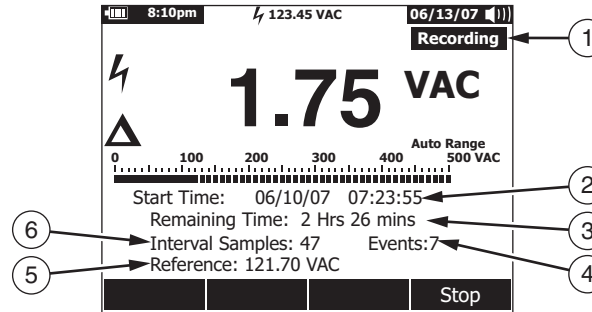
On page 48, replace the second paragraph with the following:

If there are previously stored records, press the soft key labeled **Prev** or  to page back through previously stored records. A soft key labeled **Next** or  appears for paging in the other direction. Press **Close** to return to normal Meter operation.

On page 49, under *Deleting Stored Measurement Data*, replace the third sentence in the first paragraph with the following:

Use the soft keys labeled **Prev** and **Next** to select an item for deletion.

On page 51, replace the figure in Table 8 with the one shown below, and delete the second paragraph under *Starting a Recording Session*.



On page 55, under *Testing the Fuses*, replace the second sentence with the following:

If the “Leads Connected Incorrectly” message appears, the probe tip has been inserted too far into the amps input jack. Back the lead out a bit until the message disappears and either OL or a resistance reading appears in the Meter’s display.

On page 56, replace Figure 28 with the following:

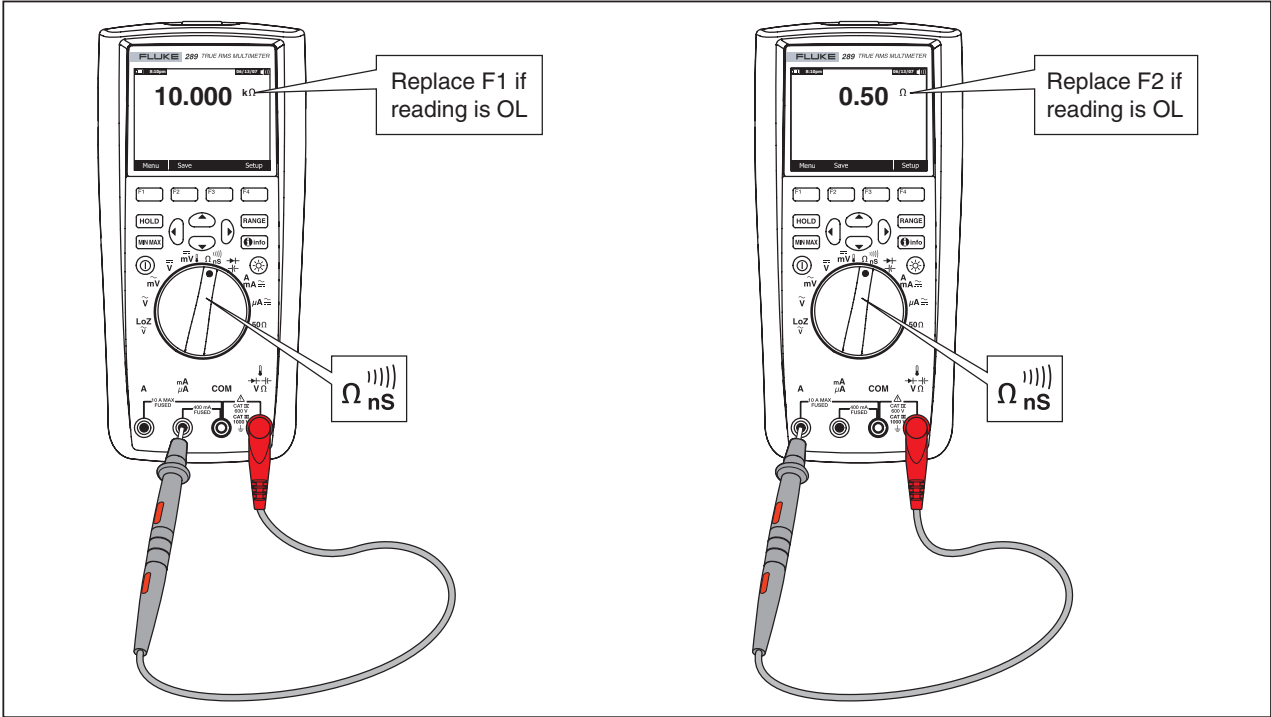


Figure 28. Testing the Current Fuses

On page 65, under **Accuracy**, add the following to the end of the paragraph:

To obtain full accuracy in DC mV, Temperature, Ohms and Lo (50) Ohms, let the meter stabilize 20 minutes after using LoZ.

On page 66, under *AC Voltage Specifications*, add a ^[7] to the $\frac{LoZ}{V}$ Function, 65 Hz to 10 kHz Accuracy column range cell, and add the following footnote to the bottom of the table:

[7] Range is limited to 440 HZ.

On page 68, replace the entire *DC Voltage Specification* table with the following:

Function	Range	Resolution	Accuracy				
			DC ^[2]	AC over DC, DC over AC, AC + DC ^[2]			
				20 to 45 Hz	45 Hz to 1 kHz	1 to 20 kHz	20 to 35 kHz
DC mV	50 mV ^[3]	0.001 mV	0.05 % + 20 ^[4]	2 % + 80	0.5 % + 80	1.5 % + 40	5 % + 40
	500 mV	0.01 mV	0.025 % + 2 ^[5]			1.5 % + 40	5 % + 40
DC V ^[1]	5 V	0.0001 V	0.025 % + 2			1.5 % + 40	5 % + 40
	50 V	0.001 V	0.025 % + 2			1.5 % + 40	5 % + 40
	500 V	0.01 V	0.03 % + 2			Not Spec'd	Not Spec'd
	1000 V	0.1 V	0.03 % + 2	Not Spec'd	Not Spec'd		
LoZ _V ^[1]	1000 V	0.1 V	1 % + 20	Not Spec'd	Not Spec'd	Not Spec'd	Not Spec'd

[1] Add 20 counts in dual display ac over dc, dc over ac or ac+dc.
 [2] AC+DC ranges are specified from 2 % to 140 % of range, except 1000 V is specified from 2 % to 100 % of range.
 [3] When using the relative mode (REL ▲) to compensate for offsets.
 [4] Add 4 counts/10 mV AC in dual display ac over dc, dc over ac or ac + dc
 [5] Add 10 counts/100 mV AC in dual display ac over dc, dc over ac or ac + dc.

On page 73, under Approximate Current Sensitivity,

Change: 0.5 A
 To: 1.0 A

On page 74, replace the entire *MIN MAX, Recording, and Peak Specifications* table with the following:

Function	Nominal Response	Accuracy
MIN MAX, Recording	200 ms to 80% (dc function)	Specified accuracy ± 12 counts for changes >425 ms in duration in manual range.
	350 ms to 80 % (ac function)	Specified Accuracy ± 40 counts for changes >1.5 s in duration in manual range.
Peak	250 μ S (peak) ^[1]	Specified accuracy ± 100 counts ^[2] up to 5,000 count (full range) reading. For higher peak reading (to 12,000 counts), specified accuracy ± 2 % ^[3] of reading.
Crest Factor	350 ms to 80 %	For periodic waveforms from 50 to 440 Hz $\pm (4 \% + 1 \text{ count})$.

[1] For repetitive peaks; 2.5 ms for single events. Peak not specified for 500 μ A DC, 50 mA DC, 5 A DC.

[2] 200 counts in 500 mV AC, 500 μ A AC, 50 mA AC, 5 A AC.

[3] 3 % in 500 mV AC, 500 μ A AC, 50 mA AC, 5 A AC.

Change #2, 45029, 45031, 45190

On page 64,

Change: CSA.....CAN/CSA-C22.2 No 1010-1-04 to 1000 V Measurement Category III and 600 V
Measurement Category IV, Pollution Degree 2

To: CSA.....CAN/CSA-C22.2 No 61010-1-04 to 1000 V Measurement Category III and 600 V
Measurement Category IV, Pollution Degree 2

On page 66, *AC Voltage Specifications*, under AC V, 5 V **Range**, change the **65 to 10 kHz** and **20 to 100 kHz** entries respectively,

From: 0.4 % + 25

To: 0.6 % + 25

and

From: 3.5 % + 40

To: 3.5 % + 40^[6]

Change #3, 45542

On page 66, *AC Voltage Specifications*, in the footnote section, change the following:

From: [6] Add 2 % above 75 kHz

To: [6] Add 2.5 % above 65 kHz

Change #4, 45723

On page 66, *AC Voltage Specifications*, in the footnote section, change the following:

From: [5] 500 mV range specification between 64.000 kHz and 67.000 kHz is +(0.0 % to -5 % of reading); 50 mV range specification between 64.000 kHz and 67.000 kHz is +(0.0 to -6 % of reading \pm 40 counts). Valid from -20 °C to +55 °C.

To: [5] 500 mV range specification between 64.000 kHz and 67.000 kHz is +(0.0 % to -5 % of reading); 50 mV range specification between 64.000 kHz and 67.000 kHz is +(0.0 to -6 % of reading \pm 40 counts). Valid from -20 °C to <18 °C and >28 °C to +55 °C.

Change #5, 46620

On page 70, under *Resistance Specifications*, delete footnote [3].