

# Manual Supplement

Manual Title:	28 II Ex Calibration	Supplement Issue:	<b>4</b>
Part Number:	Web-Only	Issue Date:	2/14
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This supplement contains information necessary to ensure the accuracy of the above manual..

## Change #1, 62942

On page 8, replace **Duty Cycle (Vdc and mVdc)** with:

### **Duty Cycle (Vdc and mVdc)**

Range	Accuracy
0.0 % to 99.9 % <sup>[1]</sup>	Within $\pm (0.2 \% \text{ per kHz} + 0.1 \%)$ for rise times $< 1 \mu\text{s}$ . <sup>[2]</sup>
[1] 0.5 Hz to 200 kHz, pulse width $> 2 \mu\text{s}$ . Pulse width range is determined by the frequency by the frequency of the signal.	
[2] For 6 V dc range accuracy is unspecified.	

Under **MIN MAX Recording** change:

From:

250 $\mu\text{s}$ (peak) <sup>[1]</sup>	Specified accuracy $\pm 100$ counts for changes $> 250 \mu\text{s}$ in duration (add $\pm 100$ counts for readings over 6000 counts) (add $\pm 100$ counts for readings in Low Pass mode)
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To:

250 $\mu\text{s}$ (peak) <sup>[1]</sup>	Specified accuracy $\pm 200$ counts for changes $> 250 \mu\text{s}$ in duration (add $\pm 100$ counts for readings over 6000 counts) (add $\pm 100$ counts for readings in Low Pass mode)
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On page 14, Step 19 replace the **Range**:

From: 6 V

To: 60 V

On page 15, Step 44 replace the **UUT Measurements**:

From

44	0.28 nf	0.48 nf
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To:

44	0.70 nf	1.10 nf
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## Change #2

On page 14, Steps 14, 15 ,16 , 17 & 18 replace the **Low Limit** and the **High Limit** with:



Low Limit	High Limit
99.93 kHz	99.97 kHz
199.48 kHz	199.52 kHz
99.93 kHz	99.97 kHz
99.93 kHz	99.97 kHz
999.8 Hz	1000.2 Hz

On page 15, Step 46, replace **Low Limit** and the **High Limit** with:

Low Limit	High Limit
9.2 $\mu\text{F}$	9.8 $\mu\text{F}$

### Change #3, 65782

On page 4, in the **Symbols** table, remove CAT III, CAT IV and CSA C1 and add:

	Conforms to relevant North American Safety Standards
	Conforms to relevant South Korean EMC Standards
CAT II	Measurement Category II is applicable to test and measuring circuits connected directly to utilization points (socket outlets and similar points) of the low-voltage MAINS installation.
CAT III	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.
CAT IV	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.

On page 5, replace **Electromagnetic Compatibility** and **IP Rating** with the following, and remove **Shock, Safety Compliance** and **Certifications** and add:

**IP Rating** ..... IEC60529: IP67 (Non-operating)  
**Safety** ..... IEC 61010-1: 600 V CAT IV / 1000 V CAT III, Pollution Degree 2  
**Electromagnetic Environment** ..... IEC 61326-1: Portable  
**Electromagnetic Compatibility** ..... In an RF field of 3 V/M, accuracy = specified accuracy +20 counts, except  
600  $\mu$ A dc range total accuracy = specified accuracy +60 counts.  
Temperature not specified  
Applies to use in Korea only. Class A Equipment (Industrial Broadcasting & Communication Equipment) <sup>[1]</sup>  
[1] This product meets requirements for industrial (Class A) electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and is not to be used in homes.

### Change #4

On page 15, replace step 49 with:

49	<b>VDC Peak</b> Min/Max	6 V	6 Vpp, 500 Hz Sq. Wave, DC offset 1 V	-1.798 V to -2.202 V	3.797 V to 4.203 V
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