Manual Supplement

Manual Title: 27 II/28 II Calibration Supplement Issue: 3
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This supplement contains information necessary to ensure the accuracy of the above manual..



27 II/28 II Calibration Manual Supplement

Change #1

On page 3, add the following under the **Warnings**:

The following Warnings apply when permitted for use by MSHA:

- MSHA approved for use with three Energizer P/N E91 or three Duracell P/N MN1500
 1.5 Volt, "AA" alkaline batteries only. All cells are to be replaced at the same time with identical part number cells in fresh air locations only.
- This multimeter is not to be used to check electrical blasting circuits.
- This multimeter is not to be connected to an electrically energized circuit in an area where permissibility is required.

On page 4, add the following to the **Symbols** Table:

On page 10, add the following under the **Warning**:

MSHA approved for use with three Energizer P/N E91 or three Duracell P/N MN1500
 1.5 Volt, "AA" alkaline batteries only. All cells are to be replaced at the same time with identical part number cells in fresh air locations only.

Change #2

On page 2, under Warning, add:

- Measure a known voltage first to make sure that the Product operates correctly.
- Do not exceed the Measurement Category (CAT) rating of the lowest rated individual component of a Product, probe, or accessory.

On page 4, Table 1, replace CAT III, CAT IV and add CAT II to the Table:

CAT	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.
CAT	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.		

Change #3, 56307, 63409, 64064, 64649

On page 4, add the following to the **Symbols** table:

	Conforms to relevant South Korean EMC Standards.
DC	

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On page 5, replace the entire *General Specification* with:

General Specifications

Maximum voltage between any	
terminal and earth ground	1000 V rms
⚠ Fuse for mA inputs	
⚠ Fuse for A inputs	
Display	
Digital	
Bargraph	
Altitude	
Operating	
Storage	
Temperature	
Operating	15 °C to +55 °C, to -40 °C for 20 minutes when taken from 20 °C
Storage	55 °C to +85 °C (without battery)
	-55 °C to +60 °C (with battery)
Temperature coefficient	
28 II	
27 II	
Electromagnetic Compatibility	In an RF field of 3 V/m, accuracy = specified accuracy +20 counts, except 600 μA dc range total accuracy = specified accuracy +60 counts. Temperature not specified
	Applies to use in Korea only: Class A Equipment (Industrial Broadcasting & Communication Equipment) [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.
Relative Humidity	
Battery Type	
Battery Life	
Vibration	Per MIL-PRF-28800 for a Class 2 instrument
Size (H x W x L)	
Size with Holster	
Weight	
Weight with Holster and Flex-Stand	
IP Rating	IP 67
Safety	IEC 61010-1: 600 V CAT IV / 1000 V CAT III, Pollution Degree 2
Electromagnetic Environment	IEC 61326-1: Portable
MSHA Approval	18-A100015-0

On page 8, in the *Input Characteristics* table, add the following footnote to the **Overload Protection** column:

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