Manual Supplement

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



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Change #1

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 5, Table 1, replace CAT III, CAT IV and add CAT II:

CATI	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.	
САТШ	Measurement Category III is applicable to test and measuring circuits connected to the distribution part of the building's low-voltage MAINS installation.	
	Measurement Category IV is applicable to test and measuring circuits connected at the source of the building's low-voltage MAINS installation.	

Change #2, 63409, 64064, 64649

On page 5, add the following to the Symbols Table:



On page 41, delete the Black and Red Alligator clips and the 27II/28II Users Manual and Getting Started Manual entries and replace with:

Not shown	Test Leads	variable ^[1]	1 (set of 2)
Not shown	Alligator Clips	variable ^[1]	1 (set of 2)
Quick Reference Guide		4288093	1
Safety Information		4288087	1
[1] See <u>www.fluke.com</u> for more information about test leads and alligator clips available for your region.			

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gaq111.eps



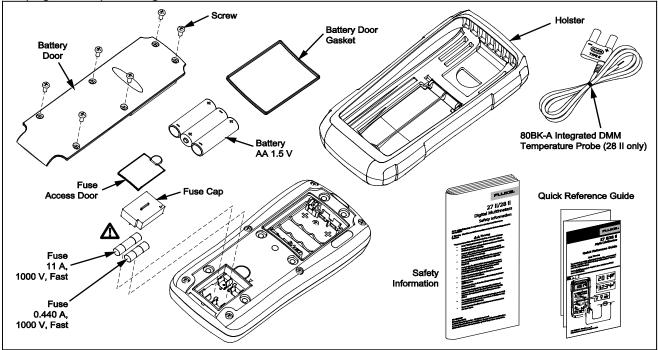


Figure 12. Replacement Parts

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On page 43, delete the entire Table 10.

On page 44 and 45, replace the entire *General Specifications* with:

General Specifications

Maximum voltage between any	
terminal and earth ground	1000 V rms
Fuse for mA inputs	440 mA, 1000 V, IR 10 kA
Fuse for A inputs	11 A, 1000 V, IR 17 kA
Display	
Digital	6000 counts, updates 4/sec (Model 28 II also has 19,999 counts in high-resolution mode).
Bargraph	33 segments; updates 40/sec
Altitude	
Operating	2,000 meters
Storage	10,000 meters
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	0.05 X (specified accuracy) / °C (< 18 °C or > 28 °C)
27 II	0.1 X (specified accuracy) / °C (< 18 °C or > 28 °C)
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

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International	IEC 61326-1: Portable, Electromagnetic Environment
	CISPR 11: Group 1, Class A
	Group 1: Equipment has intentionally generated and/or uses conductively- coupled radio frequency energy that is necessary for the internal function of the equipment itself.
	Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electroma, gnetic compatibility in other environments due to conducted and radiated disturbances.
	Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.
	Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.
Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)
	Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.
Relative Humidity	0 % to 95 % (0 °C to 35 °C) 0 % to 70 % (35 °C to 55 °C)
Battery Type	3 AA Alkaline batteries, NEDA 15A IEC LR6, MSHA approved for use with three Energizer P/N E91 or three Duracell P/N MN1500 1.5 Volt, AA alkaline batteries only.

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Battery Life	
Vibration	Per MIL-PRF-28800 for a Class 2 instrument
Size (H x W x L)	1.80 in x 3.95 in x 8.40 in (4.57 cm x 10.0 cm x 21.33 cm)
Size with Holster	
Weight	1.14 lb (517.1 g)
Weight with Holster and Flex-Stand	1.54 lb (698.5 g)
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 52, in the *Input Characteristics* table, add the following footnote to the **Overload Protection** column:

[1] 10⁶ V Hz Max

Change #3, 548, 564, 603

Fuse for mA or μA inputs.....0.44 A, 1000 V, IR 10 kA **Fuse for A inputs**.....11 A, 1000 V, IR 17 kA

On page 47, replace note 1 with:

[1] Below 30 Hz, use the smoothing function. Below 20 Hz add 0.6 %.