Manual Supplement

Manual Title:	28 II Ex Users	Supplement Issue:	**1**
Print Date:	November 2011	Issue Date:	2/12
Revision/Date:		Page Count:	7

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:	28 II Ex
CD Rev. & Date:	11/2011
CD PN:	3945765

© 2012 Fluke Corporation. All rights reserved. Printed in the U.S.A.

FLUKE®

Change #1, 60849 & 60854

On page 1, replace the second paragraph with:

The Product is designed for operation in potentially explosive areas of Zone 1, 2, 21, 22, and M1 as specified in Directive 1999/92/EC and 94/9/EC (ATEX). There can be dangerous consequences if you do not follow these instructions.

On page 2, replace the last bullet with:

Industrial use in potentially explosive areas of zone 1, 2, 21, 22, or M1, in accordance with ATEX requirements (see the EX safety instructions & regulations section)

On page 7, replace the entire page with:

Ex-Certification Data

- Ex-Type certificate no: PTB 11 ATEX 2028 X
  IECEx PTB 11.0080X
- Ex-Designation: ATEX: II 2G Ex ia IIC T4 Gb
  II 2D Ex ia IIIC T130 °C Db
  I M1 Ex ia I Ma
  IECEx: Ex ia IIC T4 Gb
  Ex ia IIIC T130 °C Db
  Ex ia I Ma
- CE: CE0102
- Operating Temperature: -15 °C to 50 °C
- Storage Temperature: -40 °C to +60 °C
- Batteries: 3 AAA Alkaline batteries, NEDA 24A IEC LR03. Table 7 shows the approved batteries for this Product.

For connections to intrinsically-safe circuits, observe these Product connections:

Voltage – measurement input U_i = 65 V:

U_0 = 9.54 V
C_i = negligible
I_0 = negligible I_i = negligible
L_i = negligible
P_0 = 3.4 mW Ri = 2.47K

Lo/Co						
Lo/mH	1000	100	2	0.5	0.1	0.01
Co/µF	0	0.61	1	1.4	2.1	3.6

Current – measurement input I_i = 5 A:

U_0 = 0 V U_i = 65 V
C_0 = 1000 µF C_i = negligible
I_0 = 0mA
L_0 = 1000 mH L_i = negligible
P_0 = 0 mW

mA/µA Jack

U_0 = 1.95 V U_i = 65 V
C_i = negligible
I_0 = 9.7 µA I_i = Internally limited by a 440 mA fuse
L_i = negligible
P_0 = negligible

Lo/Co						
Lo/mH	1000	100	5	1	0.5	0.005
Co/µF	0	14	19	25	30	1000

For measurements on protected electric circuits:

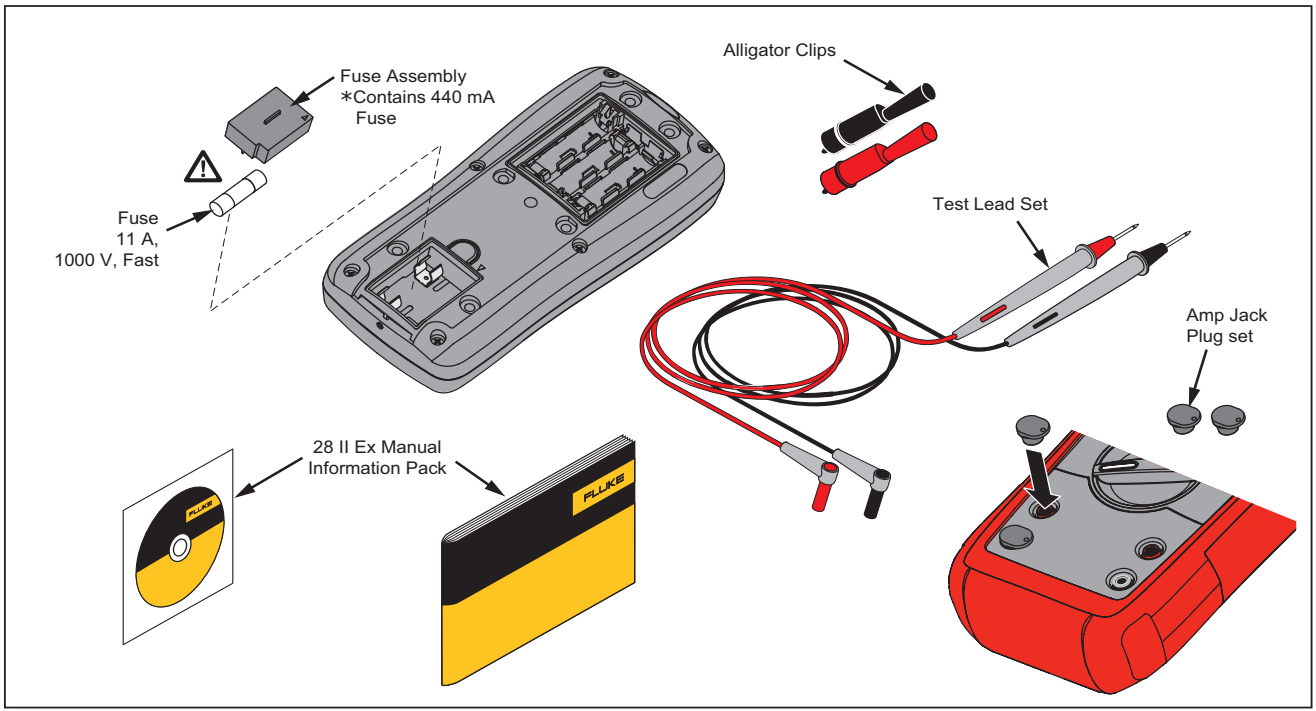
- Approved for Zones 2 and 1, device group II, explosion group IIC (explosive gases, vapors and mist), temperature class T4.
- Approved for Zones 21 and 22, device group II, explosion group IIIC, conducting and non-conducting dust, fibers, and flyings.
- Approved for use in mines. Device group I, explosion group I, methane, and coal dust.

On page 43, replace Table 10 with:

Table 10. Replacement Parts

Description	Qty.	Fluke Part or Model Number
Fuse, 11 A, 1000 V, FAST	1	803293
28 II Ex Fuse Assembly	1	4016494
Alligator Clip, Black	1	AC172 or AC175
Alligator Clip, Red	1	
Test Lead Set	1	TL175
28 II Ex Manual Information Pack (Includes Users Manual, CD & Getting Started Manual)	1	4013990
Fluke Input Cap, Amp Jack Plugs for DMM's (10 packs)	1	4145825
⚠ To ensure safety, use exact replacement only.		

On page 44, replace Figure 12 with:



grt11.eps

Figure 12. Replacement Parts

On page 45, Replace Table 11 with:

Table 11. Accessories

Item	Description
AC172 or AC175	Alligator Clips
TL175	Silicone test lead set with probes
Amp Jack Plug Set	2 Pack for DMM's
I400	⚠ AC Current Clamp [1]
80PK-27	⚠ Temperature Probe [2]

All accessories in this table are approved for use in explosive hazardous environments. Fluke accessories are available from an authorized Fluke distributor.

[1] ⚠ **Warning** - To prevent personal injury or property damage, do not use this accessory in hazardous areas where dust is moved, transported, or conveyed.

[2] ⚠ **Warning** - To prevent personal injury or property damage, do not use this accessory in dust hazardous areas.

On page 46, under **Temperature** replace Storage with:

Storage -40 °C to +85 °C (without battery)
-40 °C to +60 °C (with battery)

On page 47, replace **Certifications** with:

Certifications.....CSA, TÜV, CE, N10140, ATEX, IECEx

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Fluke:
AC175