

# 28II EX

## CERTIFICATION

### ATEX



⊕ II 2 G Ex ia IIC T4 Gb

### IECEX



Ex ia IIC T4 Gb  
Ex ia IIIC T130°C Db  
Ex ia I Ma

### NEC



Class I Zone 1 AEx ia IIC T4  
Class II Zone 21 AEx iaD T130 °C  
Class I, Division 1, Groups A,B,C,D  
Class I, Division 2, Groups A,B,C,D  
Class II, Division 1, Groups E,F,G  
Class III  
Ex ia IIC

### GOST



Ex ia IIC T4 Gb X  
Ex ia IIIC T130°C Db X (IP6X)  
Ex ia I Ma X

## CERTIFICATION

### PCEC



Ex ia IIC T4 Gb  
Ex ia IIIC T130°C Db

### INMETRO



Ex ia IIC T4 Gb  
-15 °C ≤ Tamb ≤ +50 °C

### ANZEX



Ex ia I Ma  
-15 °C ≤ Ta ≤ +50 °C

## Multimeter FLUKE 28II EX

FOR ZONE 1

### FEATURES & FUNCTIONS

- CAT III 1000 V/CAT IV 600 V
- Dustproof, waterproof (IP67)
- Measures up to 1000V / 10A (outside of the Ex-hazardous area)
- Min/Max/Avg and Peak capture
- Low pass filter for accurate measurements on variable speed motor drives
- Input alert
- 4½" digit display (20,000 counts) with backlight

### APPROVALS

The Fluke 28II EX combines a large number of worldwide approvals for use in potentially explosive environments – from ATEX to IECEx and NEC – meaning that it is no longer necessary to deploy and integrate different equipment on different continents.

This makes the multimeter a perfect example of portable, intrinsically safe measuring instruments – not least of all due to the numerous features unique to measuring devices in potentially explosive surroundings.

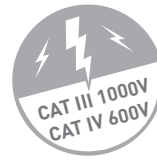


# ROBUST AND INTRINSICALLY SAFE

**ZONE 1**

## WATER AND DUSTPROOF

The 28 II EX carries the most important Ex-certifications and is also tested for drops of up to 3 meters. Additionally it is waterproof and dustproofed (IP67). Therefore, the 28 II EX DMM can survive the roughest treatment in the harshest environments.

**True RMS**

## EXTREME RUGGEDNESS

- Completely sealed IP67 rated case
- Water and dustproof
- Meets IEC Overvoltage Electrical Safety Standard EN 61010-1:2001:CAT III 1000V and CAT IV 600V

## EASY TO USE










- Backlit keypad for extra visibility in poor lit areas
- Large display digits and 2-level backlight
- Long battery life: 400 hours typical (without backlight)

## HANDLING BENEFITS

- Only one DMM is needed because of the safe and compact solution which allows safe measurement both inside and outside (max. 10A / 1000V) the Ex-hazardous area
- A separate battery compartment makes it easy to change batteries on fuses

# 28 II EX

## ACCESSORIES

ARTICLE NO.	PRODUCT DESCRIPTION	
A0001461	Replacement protection module 440mA f. 28 II EX	
A0009288 	Temperature sensor 80PK-27	
A0005533 	AC Clamp i400 (400A)	
A0001493 	Leather case with strap	
A0009238 	TL175 Twist Guard Test Leads	
A000...	Various Calibration on Request	

### TECHNICAL DATA

Ambient temperature	-15 °C ... +50 °C (+5 °F ... +122 °F)
Storage temperature	-40°C ... +60°C without Batteries
Power supply	3 x AAA, type-proofed
Operating time	approx. 400 h
Dimensions	approx. 210 x 100 x 64 mm (with holster)
Weight	approx. 690 g
Protective rating	IP67

### STANDARD DELIVERY

- Fluke 28 II EX
- Ex-holster
- Alligator clips
- Test leads TL175
- Batteries
- Ex-Certificate / EC-Declaration of conformity
- CD-ROM
- Manual

# CAN BE USED WORLDWIDE

SPECIFICATION		
DC voltage	Range: Accuracy:	0.1 mV to 1000 V ± 0.05 % + 1
AC voltage	Range: Accuracy:	0.1 mV to 1000 V ± 0.7 % +4
DC current	Range: Accuracy:	0.1 μA to 10 A ± 0.2 % + 4
AC current	Range: Accuracy:	0.1 μA to 10 A ± 1.0 % + 2
Resistance	Range: Accuracy:	0.1 Ω to 50 MΩ ± (0.2 % + 1)
Conductance	Range: Accuracy:	60.00 nS ± (1.0 % + 10)
Diode test	Range: Accuracy:	2.0 V ± (2.0 % + 1)
Duty cycle	Range: Accuracy:	0.0 % to 99.9 % Within ± (0.2 % per kHz + 0.1 %) for rise times <1 μs
Display counts		6000 counts / 19.999 counts in high-resolution mode
Capacitance	Range: Accuracy:	10 nF to 9999 μF ± (1.0 % + 2)
Frequency	Range: Accuracy:	0.5 Hz to 199.99 kHz ± (0.005 % + 1)
Temperature	Range: Accuracy:	-200 °C to +1090 °C [-328 °F to +1994 °F] ± (1.0 % + 10) °C [± (1.0 % + 10) °F]

Error: % of reading + number of digits

## REMARKS

Measurement inside the Ex-hazardous area:

$U_i \leq 65V, I_i \leq 5A$

Measurement outside the Ex-hazardous area:

$U_i \leq 1000V, I_i \leq 10A$

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