# ROBUST AND INTRINSICALLY SAFE

28 I EX TALE HAS MALTINE



### CERTIFICATION

**ATEX** 

**IECEX** TECEY

Ex ia IIC T4 Gb Ex ia I Ma

**NEC/CEC** Class I, Division 1, Groups A,B,C,D Class I Zone 1 AEx ia IIC T4

(II)

Ex ia IIC T4

P0 Ex ia I Ma X

EAC EHE

1Ex ia IIC T4 Gb X

IP6X

# CERTIFICATION

**PCEC** 

Ex ia IIC T4 Gb

Ex ia I Ma

PCEC

INMETRO Ex ia IIC T4 Gb

N Ex

**ANZEX** 

Simtars

## **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.





# 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**

ATEX to IECEx to NEC, so that the corresponding versions

This makes the multimeter a perfect example of portable, intrinsically safe measurement instruments - not least of all due to the numerous features unique to this kind of measurement devices.













**EASY TO USE** 

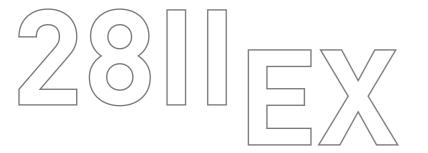
- Backlit keypad for extra visibility in poor lit areas
- Long battery life: 400 hours typical (without backlight)

#### **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

### **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







### **ACCESSORIES**

ADTICLE NO	DRODUCT DESCRIPTION	
ARTICLE NO.	PRODUCT DESCRIPTION	
481761	Replacement protection module 440mA f. 28 II EX	Hall H
484495 🗽	Temperature sensor 80PK-27	Q
483770 🐼	AC Clamp i400 (400A)	
482713 🗽	Leather case with strap	
482770 🗽	TL175 Twist Guard Test Leads	
	Various Calibration on Request	

TECHNICAL DATA			
Ambient temperature	Different temperature ranges for $T_{\text{amb}}$ are fixed by the type approved batteries.		
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 F
- Ex-holster
- Alligator clips
- Test leads TL175
- Ratteries
- Documentation
- CD-ROM

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 $\pm$ (0.2 % per kHz + 0.1 %) for rise times <1 $\mu s$
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: Ui  $\leq$  65V,li  $\leq$  5A

Measurement outside the Ex-hazardous area: Ui < 1000V, Ii < 10A

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