



Intrinsically-Safe Multimeter Fluke 28 II Ex

28 II Ex: the most rugged intrinsically safe multimeter in the world.
With a various range of approvals the DMM can be used globally!



True RMS

Extreme ruggedness

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

Easy to use

- Backlit keypadbuttons 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

CAT III 1000V / CAT IV 600V

- 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

Intrinsically safe and rugged

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) as well. Therefore the 28 II Ex DMM survives the roughest treatment in the harshest environments.

Intrinsic safety and approvals

- ATEX, IECEx, Mining (NEC and GOST approval pending)

Standard delivery:

- Ex-holster
- Alligator clips
- Test leads
- Batteries
- Manual
- Certificate / EC-declaration of conformity
- CD-ROM

Optional accessories:

- Thermocouple 80BK-A
- Temperature probe 80PK-27
- AC current clamp i400
- Factory calibration
- DKD calibration

(all accessories are allowed to be used in Ex-hazardous area)

Download

- Ex-certificate
- Instruction manual
- EC-declaration of conformity

ATEX:

Ex-designation:

- ⊗ II 2 G Ex ia IIC T4 Gb
- ⊗ II 2 D Ex ia IIIC T130° Db
- ⊗ I M1 Ex ia I Ma

EC-Certificate of Conformity:

PTB 11 ATEX 2028 X

IECEX:

Ex-designation:

- Ex ia IICT4 Gb
- Ex ia IIIC T130°C Db
- Ex ia I Ma

EC-Certificate of Conformity:

IECEX PTB 11.0080X

(NEC and GOST approval pending)

Technical Data:

Operating temperature:	-15 °C ... +50 °C
Power supply:	3 x AAA, type-proofed
Operating time:	approx. 400h
Dimensions:	approx. 210 x 100 x 64 mm (with holster)
Weight:	approx. 690 g
IP rating:	IP67



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Specification:		
DC voltage	Range:	0.1 mV to 1000 V
	Accuracy:	$\pm 0.05\% + 1$
AC voltage	Range:	0.1 mV to 1000 V
	Accuracy:	$\pm 0.7\% + 4$
DC current	Range:	0.1 μ A to 10 A
	Accuracy:	$\pm 0.2\% + 4$
AC current	Range:	0.1 μ A to 10 A
	Accuracy:	$\pm 1.0\% + 2$
Resistance	Range:	0.1 Ω to 50 M Ω
	Accuracy:	$\pm (0.2\% + 1)$
Conductance	Range:	60.00 nS
	Accuracy:	$\pm (1.0\% + 10)$
Diode test	Range:	2.0 V
	Accuracy:	$\pm (2.0\% + 1)$
Duty cycle	Range:	0.0 % to 99.9 %
	Accuracy:	Within $\pm (0.2\% \text{ per kHz} + 0.1\%)$ for rise times $< 1 \mu$ s
Display counts		6000 counts/19,999 counts in high-resolution mode
Capacitance	Range:	10 nF to 9999 μ F
	Accuracy:	$\pm (1.0\% + 2)$
Frequency	Range:	0.5 Hz to 199.99 kHz
	Accuracy:	$\pm (0.005\% + 1)$
Temperature	Range:	-200 $^{\circ}$ C to +1090 $^{\circ}$ C (-328 $^{\circ}$ F to +1994 $^{\circ}$ F)
	Accuracy:	$\pm (1.0\% + 10) \text{ }^{\circ}$ C [$\pm (1.0\% + 10) \text{ }^{\circ}$ 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:
 $U_i \leq 1000V, I_i \leq 10A$

