

F3000 AC TRMS clamp meter 3000A with flexible jaws



3000A Flex Clamp Meter **F3000**

Professional clamp meter **F3000** is designed for AC current measurement up to **3000A** TRMS with automatic range selection in compliance with CAT IV 600V, CAT III 1000V according to IEC/EN61010-1 standards. It is provided with innovative flexible jaws capable of clamping a maximum diameter size of **110mm** so permitting easy readings under every condition. The clamp has a wide display with 3000 reading digits, Data HOLD function and back-lighting to make reading easier in poorly lit environments. Auto power off function permits to save internal battery life.

Function

- TRMS measurement
- AC current up to 3000A
- Flexible jaws of high diameter
- Autorange
- Data HOLD
- Backlight
- Auto Power OFF

STANDARD Accessory

- Battery
- User manual
- Carrying bag



1. ELECTRICAL SPECIFICATIONS

Accuracy indicated as [%rdg + (number of dgt * resolution)] referred to 23°C ±5°, <80%RH

AC TRMS Current (Aurorange)

Range	Resolution	Accuracy (*), (**)	Bandwidth	Max overrange readings
30.00A	0.01A	±(3.0%rdg + 5dgt)	45 ÷ 500Hz	33.00A
300.0A	0.1A			330.0A
3000A	1A			3300A

NOTE: the display reading is zeroed for values < 10dgt

(*) Accuracy relative to sinusoidal waveforms. For non-sinusoidal signals consider as follows:

Additional error due to the Crest Factor (CF) of non-sinusoidal signals:

C.F: 1.0 ÷ 2.0 → Add 3.0%rdg

C.F: 2.0 ÷ 2.5 → Add 5.0%rdg

C.F: 2.5 ÷ 3.0 → Add 7.0%rdg

(**) Accuracy relative to conductor in the center of jaw, no magnetic/electric fields and reference temperature. The errors due to the conductor not in the center of the jaw are the followed:

- Error 2.0%rdg (distance 15mm from center of jaws)
- Error 2.5%rdg (distance 25mm from center of jaws)
- Error 3.0%rdg (distance 35mm from center of jaws)

2. GENERAL SPECIFICATIONS

Mechanical characteristics

Dimensions (L x W x H):	280 x 120 x 25mm
Weight (not including battery):	170g
Max conductor size:	110mm
Length of flexible jaws:	254mm (10")

Power supply

Battery type:	2x1.5V alkaline batteries type AAA LR03
Battery life:	about 200 hours
Auto Power Off:	about 20 minutes of idleness

Display

Characteristics:	4 LCD (max 3000 counts), decimal point, unit symbol indication, and backlight
Sample rate:	4 times/sec
Conversion mode:	TRMS

Climatic conditions

Reference temperature:	23°C ± 5°C
Operating temperature:	0 ÷ 50 °C
Operating humidity:	<80%RH
Storage temperature:	-20 ÷ 60 °C
Storage humidity:	<80%RH

Reference guidelines

safety:	IEC/EN 61010-1, IEC/EN61010-2-032
Insulation:	double insulation
Pollution:	Level 2
Max height of use:	2000m
Installation category:	CAT IV 600V, CAT III 1000V to the ground

This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC