

11 Models with 1,000 V CAT IV Safety for Every Type of Use!

**AC, DC
and AC+DC
TRMS Clamp
Multimeters**

F200 Serie

F400 Serie

F600 Serie

True *InRush*

- Current: 2,000 A_{AC} / 3,000 A_{DC}
- Voltage: 1,000 V_{AC/DC}
- Clamping diameter: 60 mm
- Large 10,000-count display
- Automatic AC/DC detection
- Min, Max, Peak
- Relative and differential measurements
- Power values
- THD & Harmonics



For Professional Use

- For electricians, clamp multimeters are ideal tools for any work in the field. Simple to use, they offer all the necessary functions in a single, compact solution.
- The F200 Series meets the needs of self-employed electricians and small and medium-sized business and industries in the electrical sector.
- For medium and high-power work, the F400 and F600 Series provide maximum safety whatever the measurement conditions and type of installation.
- With its large clamping diameter and current measurements up to 3,000 A, the F600 Series is perfect for working on electrical power distribution and transmission applications.

Safe and Robust

1,000 V CAT IV, an unprecedented level of safety for clamp multimeters!

Users can be sure of working in total safety and in compliance with the applicable standards.

The instruments' IP54 protection safeguards them against dust, in particular, thus guaranteeing that safety is maintained over time.

The mechanical design of these clamps enables them to pass the standard test for falls from a height of 2 metres.

Performance

All the clamps in the F200, F400 and F600 Series benefit from a fast 12-bit TRMS digital acquisition system offering high measurement accuracy.

Thanks to their large bandwidth and high crest factor, these clamps provide accurate measurements whatever the type of signal.

Ergonomics

The whole range has been designed for one-handed use, even when wearing protective gloves.

For maximum efficiency, each type of measurement has its own specific switch position.

The "1 key, 1 function" concept makes it even simpler to use.

In addition, all these clamps are equipped with automatic detection of the type of signal (AC or DC) for current, voltage and power measurements.



Various clamping diameters up to 60 mm are available to ensure comfortable measurements.

The rotary switch is fitted with special moulding for excellent grip even with protective gloves.

The casing is equipped with a shockproof band to protect against falls.

The backlit LCD screen is particularly comfortable to read, offering contrasts and a viewing angle which are unprecedented for this type of instrument (up to 10,000 counts).



All these clamp multimeters are equipped with automatic AC/DC detection.



Each key corresponds to a single function whatever the mode.



CATEGORY IV up to 1,000 V for greater safety.

The Quality of TRMS Measurements, Whatever the Type of Signal

A range offering unprecedented analytical and diagnostic functions!



TRMS Version of Min and Max!

The Min and Max are TRMS values calculated over a duration of up to 100 ms. This feature is particularly useful for sizing an installation, the diameter of a power cable, a thermal protection device, etc.



Peak+ and Peak-

Calculated over a period of 1 ms, the Peak+ and Peak- values help to characterize the distortion affecting the signal measured. For example, they may reveal variations in the installation's behaviour or even malfunctions.



THD and Harmonics

When seeking the causes of a malfunction, knowledge of the overall signal distortion (THDr or THDf) or frequential distortion (harmonic analysis) helps you to identify the precise corrective solution required: filtering, oversizing, etc. Harmonic analysis also contributes to fire prevention.



ΔREL, for Quick Evaluation

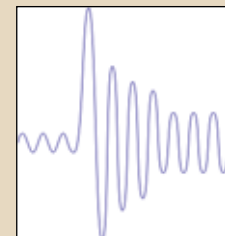
Comparison with a reference quantity is a quick way of evaluating and analysing your results. A signal's variations can be measured differentially or relatively. The first method indicates the difference between the value of reference and the value measured. The second method indicates the proportion. The ΔREL function can be applied to any type of measurement and can be used jointly with the Min, Max and Peak functions.

INNOVATION FROM
CHAUVIN ARNOUX

TrueInRush

The **TrueInRush** function makes it easy to analyse both the **inrush of a single motor** and the inrush of a **set of machines in operation**.

The clamp **automatically determines** the type of signal and the level of current in the installation and then **adapts the algorithm and measurement mode** to capture the expected overcurrent.

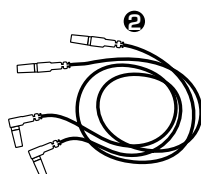
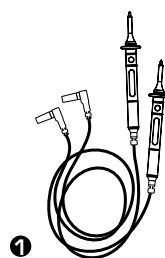


Indeed, correct sizing of electrical installations in terms of both the conductors and the protective systems implemented is a recurrent problem.

Overcurrents usually occur when an installation or a machine is started up or when machinery is subjected to heavy loads.

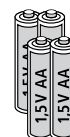
The **TrueInRush** function enables you to size the installation correctly.

	F200 SERIES			F400 SERIES				F600 SERIES			
Model	F201	F203	F205	F401	F403	F405	F407	F601	F603	F605	F607
Clamping diameter	34 mm			48 mm				60 mm			
Display	LCD		Backlit LCD	Backlit LCD				Backlit LCD			
Resolution	6,000 counts			10,000 counts				10,000 counts			
Number of values displayed	1			1			3	1			3
Type of acquisition	TRMS [AC]	TRMS [AC]/DC	TRMS [AC, AC+DC]/DC	TRMS [AC]	TRMS [AC]/DC	TRMS [AC, AC+DC]/DC	TRMS [AC, AC+DC]/DC	TRMS [AC]	TRMS [AC]/DC	TRMS [AC, AC+DC]/DC	TRMS [AC, AC+DC]/DC
Autorange	YES			YES				YES			
Automatic AC / DC detection	-	YES		-	YES			-	YES		
A AC	0.15 to 600 A (900A peak)			0.15 to 1,000 A (1,500A peak)				0.15 to 2,000 A (3,000A peak)			
A DC			0.15 to 900A peak			0.15 to 1,500A				0.15 to 3,000A	
A AC+DC			0.15 to 600 A (900A peak)			0.15 to 1,000 A (1,500A peak)				0.15 to 2,000 A (3,000A peak)	
Best accuracy	1% reading + 3 cts			1% reading + 3 cts				1% reading + 3 cts			
V AC	0.15 to 1,000 V (1,400 V peak)			0.15 to 1,000 V (1,400 V peak)				0.15 to 1,000 V (1,400 V peak)			
V DC	0.15 to 1,400 V			0.15 to 1,400 V				0.15 to 1,400 V			
V AC+DC			0.15 to 1,000 V (1,400 V peak)			0.15 to 1,000 V (1,400 V peak)				0.15 to 1,000 V (1,400 V peak)	
Best accuracy			1% reading + 3 cts			1% reading + 3 cts				1% reading + 3 cts	
Hz	Current: 5.0 Hz to 3,000 Hz Voltage: 5.0 Hz to 20.00 kHz			Current: 5.0 Hz to 2,000 Hz Voltage: 5.0 Hz to 20.00 kHz				Current: 5.0 Hz to 1,000 Hz Voltage: 5.0 Hz to 20.00 kHz			
Ohm	0.1 Ω to 59.99 kΩ			0.1 Ω to 99.99 kΩ				0.1 Ω to 99.99 kΩ			
Open-circuit voltage	≤ 8 V			≤ 8 V				≤ 8 V			
Measurement current	≤ 680 μA			≤ 680 μA				≤ 680 μA			
Audible continuity	YES			YES				YES			
Continuity threshold	adjustable from 1 to 599 Ω			adjustable from 1 to 999 Ω			40 Ω	adjustable from 1 to 999 Ω			40 Ω
Diode test (semiconductor junction)	YES			YES			NO	YES			NO
Temperature (K type)	°C: -60.0 to +1,000.0°C °F: -76.0 to +1,832 °F			°C: -60.0 to +1,000.0°C °F: -76.0 to +1,832 °F				°C: -60.0 to +1,000.0°C °F: -76.0 to +1,832 °F			
Single-phase and total three-phase power values	YES			YES				YES			
Active power			1 W to 600 kW			1 W to 1,000 kW				1 W to 2,000 kW	
Reactive power			1 var to 600 kvar			1 var to 1,000 kvar				1 var to 2,000 kvar	
Apparent power			1 VA to 600 kVA			1 VA to 1,000 kVA				1 VA to 2,000 kVA	
FP / DPF			YES / NO			YES / NO	YES / YES			YES / NO	YES / YES
Harmonic analysis			YES			YES	YES			YES	YES
THDf / THDr			YES / YES			YES / YES	YES / YES			YES / YES	YES / YES
Frequency analysis			NO			NO	25th order			NO	25th order
Phase rotation (2-wire method)			YES			YES				YES	
Fonctions											
True InRush (Overcurrent measurement)	YES			YES				YES			
Motor inrush	YES			YES				YES			
Load change	YES			YES				YES			
Hold	YES			YES				YES			
Min. / Max.	YES			YES				YES			
Peak+ / Peak-			YES			YES				YES	
RElative ΔX / Differential ΔX/X (%)		YES / YES			YES / YES				YES / YES		
Auto Power Off	YES			YES				YES			
Data recording							YES				YES
Communication interface							Bluetooth				Bluetooth
Electrical safety as per IEC 61010	600V CAT IV			1000V CAT IV & CAT III				1000V CAT IV & CAT III			
Power supply	1 x 9 V LF22			4 x 1.5 V AA				4 x 1.5 V AA			
Dimensions & weight	78 x 222 x 42 mm / 340 g			92 x 272 x 41 mm / 600 g				111 x 296 x 41 mm / 640 g			



9 V for F200 Series

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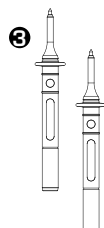
1.5 V for F400 / F600 Series



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TO ORDER

F201	P01120921
F203	P01120923
F205	P01120925
F401	P01120941
F403	P01120943
F405	P01120945
F407	P01120947
F601	P01120961
F603	P01120963
F605	P01120965
F607	P01120967



STATE AT DELIVERY

	F201	F401	F205	F407
	F203	F403	F405	F607
		F601	F605	
		F603		
1	x1			
2		x1	x1	x1
3		x1	x1	x1
4			x1	x2
5	x1	x1		
6	x1	x1	x1	x1
7	x1	x1	x1	x1

+ Start-up Guide and Operating Manual (5 languages) on CD-Rom

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