

F200 - F400 - F600 Series

AC, DC and AC+DC TRMS Clamp Multimeters



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



- Current: 2,000 A_{AC} / 3,000 A_{DC}
- Voltage: 1,000 VAC/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
- 3-year warranty



- 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 selfemployed 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.



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 (THD_r or THD_f) or frequential distortion (harmonic analysis) helps you to identify the precise corrective solution required: filtering, oversizing, etc.

Harmonic analysis also contributes to fire prevention.



∆REL, 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 Δ REL 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

True**InRush**

The **True** *InRush* 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 True In Rush

function enables you to size the installation correctly.

Choose Your Clamp Multimeter

This 11-model range of clamp multimeters meets all your needs in the field.

1/ MEASUREMENT RANGE

3 series identifiable by their first digit for 3 measurement ranges

- \bullet The F200 Series for currents up to 600 A_AC / 900 A_DC
- \bullet The F400 Series for average currents up to 1,000 A_{AC} / 1,500 A_{DC}
- \bullet The F600 Series for high currents up to 2,000 Aac / 3,000 Adc

All the models also innovate by proposing as standard features:

- AC and DC voltage measurement up to 1,000 V
- Resistance and audible continuity
- Min / Max analysis
- True*InRush* overcurrent measurement

2/ TYPE CURRENT & FUNCTIONS

Each series comprises 3 or 4 models.

The last digit in each clamp's name corresponds to different applications and levels of analysis.

So the F201, F401 and F601 clamps, for example, offer the same functions but with different measurement ranges.



F200 SERIE

	F200 serie
Clamping d	liam. 34 mm
Current	600 A _{AC or AC+DC}
	900 A _{DC}
Domain	600V CAT IV
of use	1,000 V CAT III

The F200 clamps are ideal for low-power or medium-power low-voltage applications: maintenance of tertiary or industrial electrical installations or installed machines, power supply diagnostics and/or sizing, commissioning of air-conditioning and heating systems, work on electric vehicles, etc.



		F201	F203	F205
Display reso	lution	6,000 cts	6,000 cts	6,000 cts
Measureme	nts displayed	x 1	x 1	x 1
Display back	lighting		•	•
Acquisition I	nethod	TRMS	TRMS	TRM S
Automatic A	C/DC detection	•	٠	•
	AC	•	•	•
Α	DC		•	•
	AC+DC			•
	AC	•	•	•
v	DC	•	•	•
	AC+DC			•
Hz		•	•	•
Resistance/a	udible continuity	•	•	•
Temperature	e (°C / °F)	•	•	
Adapter fun	ction		•	
2-wire phase	e rotation			•
W, var, VA, P	۴			•
THD _f / THD _r				•
Min. / Max.		•	•	•
Peak+ / Peak	(-			•
True InRush		•	•	•
ΔREL			•	•
	° F Σ3Φ %THD r splay	A~ A~ OFF DED OFF	Cr Zárie Cr Zár	WW WR 1-2-3 AR AR VR C 2/rep C 2/rep C 2/rep C 2/rep Receip Receip C 2/rep Receip Receip C 2/rep Receip C 2/rep C 2/







F400 SERIE

Clamping diam. 48 mm 1,000 AAC or AC+DC Current 1,500 ADC 1,000V CAT IV 1,000 V CAT III Domain use

The F400 Series is designed for medium-power low-voltage applications in sectors such as LV electricity production and distribution, industry, railways, etc. It is also suitable for lift/elevator technicians and other lifting and transport specialists.

The main applications for the clamps in this series are maintenance, testing, monitoring, diagnostics and connection.



		F401/F601	F403/F603
Display r	esolution	10,000 cts	10,000 cts
Measure	ments displayed	x 1	x 1
Display b	acklighting	•	•
Acquisiti	on method	TRMS	TRMS
Automat	ic AC/DC detection	•	•
	AC	•	•
Α	DC		•
	AC+DC		
	AC	•	•
V	DC	•	•
	AC+DC		
Hz		•	•
Resistanc	e/audible continuity	•	•
T° (°C / °F)	•	•
Adapter			•
2-wire ph	nase rotation		
W, var, V	A, PF		
DPF			
THD _f / TH	lD _r		
Harm0	Harm25		
Min. / Ma	ax.	•	•
Peak+/P	eak-		
True InRu	ısh	•	•
ΔREL			•
Recordin	g		
PC softwar	e (included) / Bluetooth		
Max Min Peak+ Pi AC+DC °C°F 2	ARef mkW %PF kvar kVA kΩ kHz eak- %THDf		

Complete display for F401, F403, F405, F601, F603 & F605







F600 SERIE

F600 serieClamping diam.60 mmCurrent2,000 AAC or AC+DC3,000 ADC3,000 ADCDomain1,000V CAT IVof use1,000 V CAT III

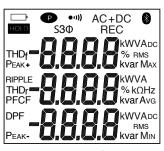
The F600 Series is designed for the high-power LV market in sectors such as electrical power distribution, chemical and petrochemical industries, metallurgy, transport, etc.

Applications: maintenance, testing, monitoring, diagnostics, sizing, connection, etc.

F405/F605	F407/F607
10,000 cts	10,000 cts
x 1	x 3
•	•
TRMS	TRMS
•	•
•	•
•	•
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Complete display for F407 & F607

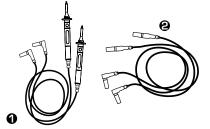








		F200 SEF	RIES		F400 SERIES F600 SERIES		SERIES				
Model	F201	F203	F205	F401	F403	F405	F407	F601	F603	F605	F607
Clamping diameter		34 mm			48	mm	1		60) mm	
Display	LCD	Ba	cklit LCD		Back	lit LCD			Back	lit LCD	
Resolution		6,000 cour		10,000 counts		10,000 counts					
Number of values displayed		1			1		3		1		3
Tune of convisition	TRMS	TRMS	TRMS	TRMS	TRMS	TR	MS	TRMS	TRMS	TR	MS
Type of acquisition	[AC]	[AC]/DC	[AC, AC+DC]/DC	[AC]	[AC]/DC	[AC, AC	+DC]/DC	[AC]	[AC]/DC	[AC, AC	+DC]/DC
Autorange		Yes			· · · · · · · · · · · · · · · · · · ·	Yes				Yes	
Automatic AC / DC detection	-		Yes	-		Yes		-		Yes	
A AC		25 to 600 A (90			0.25 to 1,000				0.25 to 2,000	A (3,000 A pea	
A DC	· ·	0.25	to 900 A	-	l	0.25 to 1500 A		-		0.25 to 3,000 /	
A AC+DC		-	0.25 to 600 A		-		1,000 A				2,000 A
De et e como es		10/1.2	(900 A peak)		1.0/ 1		A peak)		1.0/ 1		A peak)
Best accuracy		1 % L. + 3				+ 3 cts				+ 3 cts	
V AC V DC		0.15 to 1,00 0.15 to 1,00				0 1,000 V 0 1,000 V	-			o 1,000 V o 1,000 V	
V AC+DC		- 0.15 10 1,00	0.15 to 1,000 V		- 0.15 ll		1,000 V		- 0.15 ll		1,000 V
Best accuracy		-	1 % reading + 3 cts		-		ing + 3 cts		-		ing + 3 cts
	C	urrent: 5,0 Hz to				Hz to 2,000 Hz				Hz to 1,000 Hz	ing + 5 cis
Hz		Itage: 5.0 Hz to				Iz to 2,000 Hz				Hz to 20.00 kHz	
Ohm	10	0.1 Ω to 59.9) 99.99 kΩ				o 99.99 kΩ	
Open-circuit voltage			5 112			8 V				8 V	
Measurement current		≤ 680 µA	λ.			80 µA				80 µA	
Audible continuity		Yes				Yes				Yes	
Continuity threshold	а	djustable from 1	to 599 Ω	adjus	table from 1 to	999 Ω	40 Ω	adjus	table from 1 to	999 Ω	40 Ω
Diode test (semiconductor junction)		Yes			Yes		No	· · · · ·	Yes		No
Temperature (K type)		o +1,000.0 °C to +1,832 °F	-		+1,000.0 °C o +1,832 °F		-		+1,000.0 °C o +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
THD _f / THD _r		-	Yes / Yes		-	Yes / Yes	Yes / Yes		-	Yes / Yes	Yes / Yes
Frequency analysis		-	No		-	No	25th order		-	No	25th order
Phase rotation (2-wire method) Functions		-	Yes		-	Yes	-		-	Yes	-
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		-		es				es
RELative ΔX / Differential $\Delta X/X$ (%)		Y	es / 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		600 V CAT	IV		1000 V CA	T IV & CAT III			1,000 V CA	AT IV & CAT III	
Power supply		1 x 9 V LF2	22		4 x 1	.5 V AA			4 x 1	.5 V AA	
Dimensions & weight	7	'8 x 222 x 42 mr	n / 340 g		92 x 272 x 4	11 mm / 600 g			111 x 296 x	41 mm / 640 g	



201	P01120921
	P01120923
-205	P01120925
401	P01120941
403	P01120943
405	P01120945
407	P01120947
601	P01120961
603	P01120963
605	P01120965
607	P01120967



0

		F401 F403	F405	
		F601 F603	F605	
0	x 1			
0		x 1	x 1	x 1
0 2 6 4 5		x 1	x 1	x 1
0			x 1	x 2
0	x 1	x 1		
0	x 1	x 1	x 1	x 1
0	x 1	x 1	x 1	x 1
	art-up Guid languages			inual



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FRANCE

Chauvin Arnoux 190, rue Championnet 75876 PARIS Cedex 18 Tel: +33 1 44 85 44 38 Fax: +33 1 46 27 95 59 export@chauvin-arnoux.fr www.chauvin-arnoux.com

UNITED KINGDOM

Chauvin Arnoux LTD Unit 1 Nelson Ct, Flagship Sq, Shaw Cross Business Pk Dewsbury, West Yorkshire - WF12 7TH Tel: +44 1924 460 494 Fax: +44 1924 455 328 info@chauvin-arnoux.co.uk www.chauvin-arnoux.com

MIDDLE EAST

Chauvin Arnoux Middle East P.O. BOX 60-154 1241 2020 JAL EL DIB - LEBANON Tel: +961 1 890 425 Fax: +961 1 890 424 camie@chauvin-arnoux.com www.chauvin-arnoux.com



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