

PAC Series

AC/DC Hall-effect current clamps



Genuine automatic DC Zero

Power, DC Zero Adjustment and Range
Overrun LEDs

Deactivatable automatic power-off

Extra electrical safety for
measurements in the field

Double power supply: battery &
standard external 5 Vdc power pack





PAC Series

Effectiveness in your hand

The **PAC 10 and PAC 20 Series** clamps offer an ergonomic design and high-performance technical specifications making them extraordinarily simple to use. The **PAC** models can be used to measure direct or alternating, sinusoidal or distorted currents with or without a DC component.

The result of considerable study in the field, the **PAC Series** is available with 2 specific jaw shapes. Hooked up to a multimeter, logger, oscilloscope, etc., the **PAC** clamp simplifies measurement of all currents, without any risk and without shutting down the installation.

- As soon as a **PAC** clamp is powered up, a LED indicates that it is in operation, that an external power pack is connected and that the standby mode is activated (green colour) or deactivated (orange colour).
- Before any current measurements, you must adjust the DC Zero which can be done instantaneously by simply pressing with your thumb.
- If the current measured is too high, a red LED flashes.
- If the clamp is no longer in use, it shuts down automatically. The automatic power-off function can be deactivated.
- For intensive use or to record measurements over a long period, the PAC clamp can be powered by an external 5 V_{DC} power pack via its μ USB connector. If the external power source cuts out temporarily, the battery takes over.

The PAC clamps are designed to optimize safety. They fulfil the most demanding criteria in the current norms, including IEC 61010-2-032 for industrial environments.

These models complete the wide range of Chauvin Arnoux current clamps made in France at the Group's ISO 9000-certified production plants.

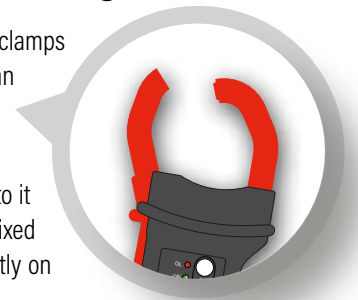
PAC 15, PAC 16, PAC 17 The essential accessories for multimeters

- The **PAC 15** is the essential accessory for multimeters. Simple and effective with its single 1 mV/A sensitivity and "direct reading", the **PAC 15** clamp measures currents up to 400 A_{AC} and 600 A_{DC}, directly on an installation in operation (no opening of circuit).
- The **PAC 16**, the flagship model in the PAC 10 Series, offers dual sensitivity alongside the functions present on all the models such as **automatic Zero DC adjustment, deactivatable automatic power-off and possibility of using a standard external power supply**.
- This clamp is also available in a version for oscilloscopes: **PAC 17**.

Jaws designed for easy handling

The off-centre opening of these clamps means that their mobile jaws can be used to "scoop up" cables and wires as if it were a shovel.

This "wire" can then be hooked onto it thanks to the beak shape of the fixed jaw. This means you can pull slightly on a wire to disengage it a little.



PAC 25, PAC 26, PAC 27 Measurement of AC/DC industrial currents

- The **PAC 26** is designed for measuring relatively high currents, up to 1,000 A_{AC} and 1,400 A_{DC}.

Conductors carrying such high currents are usually large-diameter cables or busbars, in a protected and relatively well-ventilated environment. In particular, this is the case for transformer stations and electrical distribution in industry, etc. To optimize measurement, the clamp opening is centred to allow the jaws to open widely.

- 2 other versions of this clamp are available: the **PAC 27**, a bi-calibre isolated current sensor for oscilloscopes, and the **PAC 25**, a single-calibre clamp with "direct reading" for multimeters.

AC/DC Hall-effect current clamps



PAC 17 & PAC 27 Clamps for oscilloscopes

When you view a current, it reveals the parameters needed to interpret it: waveform, level of distortion, Peak values, etc.

They are particularly safe to use. The simple fact of clamping the cable with the clamp isolates the user from the circuit tested. These clamps are also called isolated current probes.

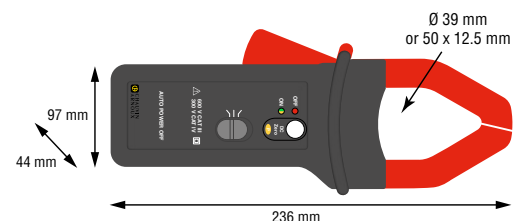
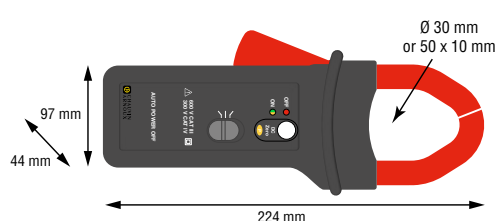
PAC 26 Clamp for medium and high currents

In the rail sector, mining, chemicals and other industries, high current measurements may involve both AC and DC.

- The **PAC 26** covers the whole range of these requirements, from measuring a medium-level current on a battery network, to high-current measurements on large DC motors (starters, conveyors, etc.).



	PAC15	PAC16	PAC17	PAC25	PAC26	PAC27
	600 A DC and 400 A AC (600 A peak)			1,400 A DC and 1,000 A AC (1400 A peak)		
Single-calibre	●			●		
Bi-calibre		●	●		●	●
Automatic DC Zero	●	●	●	●	●	●
Power LED	●	●	●	●	●	●
Overload LED	●	●	●	●	●	●
Deactivatable automatic power-off	●	●	●	●	●	●
Connection	Ø 4 mm male plugs		BNC	Ø 4 mm male plugs		BNC



PAC Series - AC/DC Hall-effect current clamps

Technical specifications

	PAC 15	PAC 16	PAC 17	PAC 25	PAC 26	PAC 27
	For multimeters, loggers, etc.		For oscilloscopes	For multimeters, loggers, etc.		For oscilloscopes
Measurement range(s)	0.5 .. 400 A AC RMS 0.5 .. 600 A DC	0.5 .. 40 A AC RMS 0.5 .. 60 A DC 0.5 .. 400 A AC RMS 0.5 .. 600 A DC	0.5 .. 40 A AC RMS 0.5 .. 60 A DC or peak 0.5 .. 400 A AC RMS 0.5 .. 600 A DC or peak	0.5 .. 1000 A AC RMS 0.5 .. 1400 A DC	0.5 .. 100 A AC RMS 0.5 .. 150 A DC 0.5 .. 1000 A AC RMS 0.5 .. 1400 A DC	0.5 .. 100 A AC RMS 0.5 .. 150 A DC or peak 0.5 .. 1000 A AC RMS 0.5 .. 1400 A DC or peak
Bandwidth ⁽¹⁾	DC .. 30 kHz (-3 dB)			DC .. 30 kHz (-3 dB)		
Sensitivity	1 mV/A	10 mV/A 1 mV/A		1 mV/A	10 mV/A 1 mV/A	
Best accuracy ⁽²⁾	1.5 % + 1 mV	1.5 %		1.5 % + 1 mV	1.5 %	
Output connector	Ø 4 mm isolated elbowed male safety plugs		Isolated male BNC	Ø 4 mm isolated elbowed male safety plugs		Isolated male BNC
Length of built-in cable	1.5 m		2 m	1.5 m		2 m
Admissible load of measuring instrument	≥ 1 MΩ / ≤ 100 pF			≥ 1 MΩ / ≤ 100 pF		
Power supply	9 V battery / 5 V DC µUSB type B			9 V battery / 5 V DC µUSB type B		
Battery life ⁽³⁾	50 hours typical			50 hours typical		
Specific functions	automatic deactivatable			automatic deactivatable		
Standby function	Automatic			Automatic		
DC Zero	External power supply / Battery status Standby status Measurement capacity overrun DC Zero acknowledgement			External power supply / Battery status Standby status Measurement capacity overrun DC Zero acknowledgement		
LED indications						
Maximum conductor diameter	Cables: Ø 30 mm / Busbars: 50 x 10 mm			Cables: Ø 39 mm / Busbars: 50 x 12.5 mm		
Dimensions	224 x 97 x 44 mm			236 x 97 x 44 mm		
Weight	440 g with battery			520 g with battery		
Climatic conditions						
Operation	-10 °C to +55 °C / < 85 % RH			-10 °C to +55 °C / < 85 % RH		
Storage	-40 °C to +80 °C / < 85 % RH			-40 °C to +80 °C / < 85 % RH		
Compliance with standards						
Electrical safety	IEC 61010-1 & IEC 61010-2-032 600 V CAT III / 300 V CAT IV			IEC 61010-1 & IEC 61010-2-032 600 V CAT III / 300 V CAT IV		
Electromagnetic compatibility	IEC 61326-1			IEC 61326-1		
Self-extinguishing capability	Jaws and casing: UL94 V1			Jaws and casing: UL94 V1		

(1) depending on current value - (2) Best uncertainty in % of output signal - (3) on battery

To order

PAC 15 clamp	P01120115
PAC 16 clamp	P01120116
PAC 17 oscillo clamp	P01120117
PAC 25 clamp	P01120125
PAC 26 clamp	P01120126
PAC 27 oscillo clamp	P01120127

Accessories / Replacement parts

110/230 V 50/60 Hz adapter USB 5 V _{DC} and USB/µUSB cable	P01651023
9 V alkaline battery	P01100620
MF bag 120 X 245 X 60 CA	P01298075

State at delivery

Delivered in a cardboard box containing:
1 PAC clamp, 1 9 V battery, 1 user's manual in
5 languages (F, GB, D, I, E), 1 safety datasheet
(20 languages), 1 verification certificate.