

## Test & Measurement Instruments

Portable and laboratory measurement



### E25 & E27 Clamps

AC/DC current clamps

D.Palanché – 05/2021

# E Series clamps (E25 & E27 models)



# New features

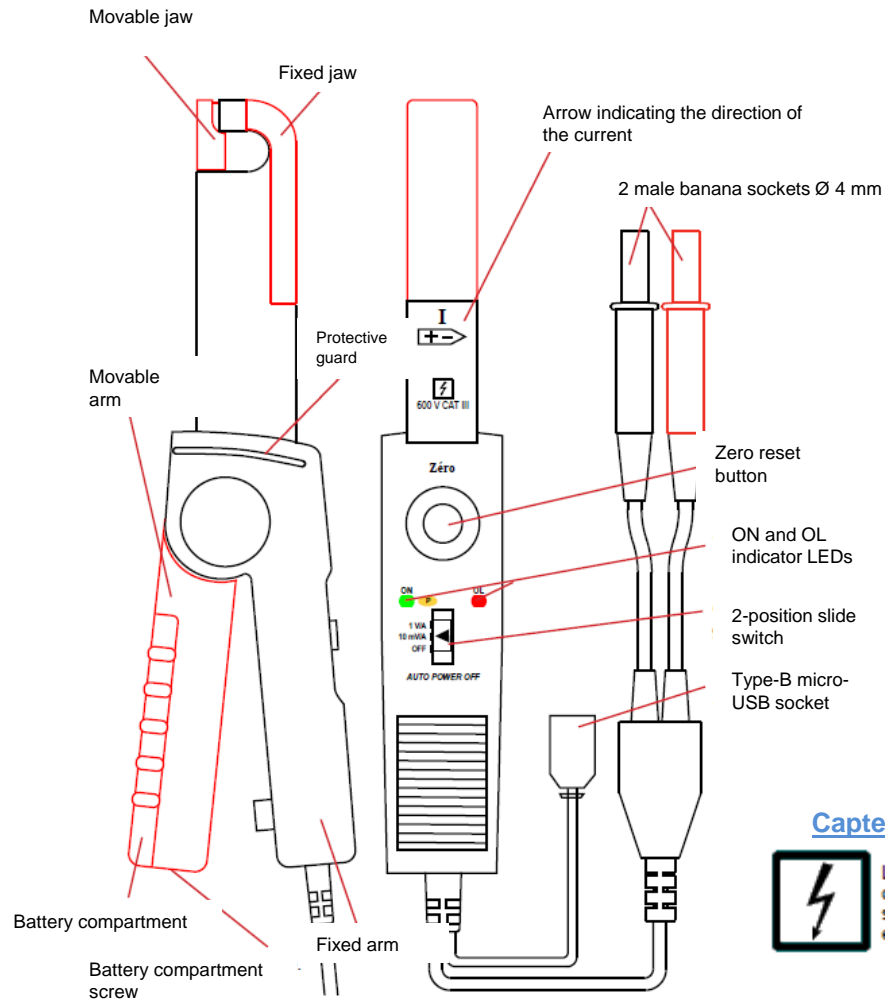


- Two colours. The red colour simultaneously indicates:
  - The hazard zone (when clamping a live conductor)
  - The mobile part of the jaw (opening trigger)
- Standard external power supply via a Micro-USB type B 5V DC socket (option)
- External power supply backed up and APO saved by internal power supply (9V battery) in the event of a mains outage.
- Automatic DC Zero on all models
- An "ON" LED which indicates both the power supply status and the APO (Auto Power Off) status
  - green: APO activated
  - orange: APO off (no automatic power-off)

And, as always:

- These products have been entirely developed and manufactured in France by CHAUVIN ARNOUX.

# Description

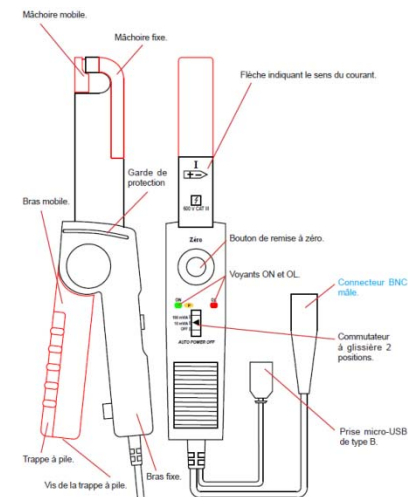


	E25 (remplace E3N)	E27 (remplace E6N)
<b>Etendue de mesure</b>	2 A DC / 1,5 A AC 80 A DC / 60 A AC	10 A crête 100 A crête
<b>Bandwith (-3 dB)</b>	20 kHz	100 kHz
<b>Sensitivities (calibres)</b>	1 mV/mA (1V/A) 10 mV/A	100 mV/mA 10 mV/A
<b>Clamping diameter</b>	11,8 mm	11,8 mm
<b>Power supply</b>	9V battery 5V DC via type-B female µUSB	9V battery 5V DC via type-B female µUSB
<b>Output connections</b>	Two-wire cable 1.5 m long terminated by 2 x Ø4 mm insulated male banana plugs	Coaxial cable 2 m long terminated by 1 insulated BNC plug
<b>Measurement category</b>	600V CAT III 300V CAT IV	600V CAT III 300V CAT IV

## Capteurs de type A



L'enserriment ou le retrait de conducteurs NON ISOLÉS sous tension DANGEREUSE est autorisé.



# Sales Arguments

- Current measurement without cutting the circuit and without mechanical intervention on the installation.  
That's a guarantee of safety as well as reliability for the installation,
- Advanced "Hall effect" technology with large bandwidth,
- Excellent handling and "one-handed" use (all the controls can be reached with your thumb)
- Complies with the IEC 61010-1 & IEC 61010-2-032 standards, 600V CAT III, pollution degree 2,
- Standard 5V DC type-B Micro-USB external power supply with battery backup in the event of a mains power cut.  
Can be used to carry out measurement campaigns covering several days or weeks.
- Deactivatable automatic power-off function
- "Automatic Zero DC" function on all models



## Increasingly numerous and varied with the rise of alternative energies

- Electrical and measuring equipment distributors
- Maintenance technicians (industrial, tertiary, etc.).
- Motor manufacturers and repair technicians (AC, DC).
- Automotive electricians.
- Industrial electrotechnical equipment installers.
- Technicians responsible for maintaining the battery power supplies used in telecoms, surveillance (alarms) and IT
- Electrotechnology teachers.
- Test and measurement laboratory technicians.
- Manufacturers and integrators of measuring instruments (O.E.M.)



# Examples of Applications

## 1 - Automotive diagnostics (on electric vehicles or vehicles with combustion engines).

Diagnostics and maintenance of motors and accessories  
Measurement of the currents during operation and on standby, battery conservation

## 2 - Switching power supplies

Diagnosis of the current (AC, DC) upstream and downstream of the power supply.

## 3 - Three-phase motors controlled by low-power variable speed drives

Measurement of distorted current (true RMS) of the motor on each phase.  
The high bandwidth of the PAC clamps allows current measurement whatever the motor's rated current.

## 4 - UPS (Uninterruptible Power Supply).

Measurement of the distorted currents output by the UPS (in non-linear mode).  
Checking of the current absorbed and the balancing on each phase.

## 5 - Storage and power supply on battery

Measurement of recharging, charging and supply currents,

## 6 – Lifting equipment, conveyors, presses

Checking of the power supply on installations requiring high torque de l'alimentation d'installation nécessitant un fort couple

## 6 – Education

Display, understanding, analysis, diagnostics,



# To order:

Code article	Désignation	EAN13
Product code	Description	
P01120025	E25 CLAMP CVH 1-100/1	3663653007740
P01120027	E27 CLAMP CVH OSCILLO	3663653007757
	Delivered in CA cardboard box containing: <ul style="list-style-type: none"> <li>• 1 E clamp</li> <li>• 1 quick start guide (5 languages)</li> <li>• 1 safety datasheet (20 languages)</li> <li>• 1 x 9V battery</li> <li>• 1 verification certificate</li> </ul>	
<b>Accessories:</b>		
P01651023	ADAPT.230V/CORD.μUSB-B	
P01298075	BAG-MF 120X245X60 CA	
<b>Spares:</b>		
P01100620	9V ALKALINE BATTERY	

