

PINZA AMPEROMETRICA MN13

Current clamp MN13

Pinza amperometrica per correnti alternate da 0.5 A a 200 A caratterizzata da dimensioni ridotte e un'elevata ergonomia.

Amperometric mini-clamp for AC currents from 0.5 A to 200 A with reduced dimensions and high ergonomics.



La pinza amperometrica MN13 è utilizzabile su tutti gli analizzatori della famiglia **NanoVIP®** per la misura delle correnti alternate fino a 200 A; è dotata di un sistema di **riconoscimento automatico** da parte dell'analizzatore che rende molto semplice il suo settaggio.

Le dimensioni particolarmente compatte ne fanno uno strumento altamente ergonomico, facilmente collocabile e con una minima occupazione di spazio.

EN The MN13 current clamp can be used on all analyzers of the **NanoVIP®** family to measure AC currents up to 200 A; it is equipped with an **automatic recognition system** by the analyzer that makes its setting very simple. The particularly **compact dimensions** make it a highly ergonomic tool, easy to place and with minimal space requirements.

COMPATTA, RESISTENTE E PRECISA

- ✓ Utilizzabile su analizzatori della famiglia NanoVIP® senza necessità di alimentazione o amplificazione esterna.
- ✓ Dotata di sistema di riconoscimento automatico se utilizzata sui più recenti analizzatori della serie NanoVIP®: TWO™, CUBE™ e QUADRA™
- ✓ Progettato per la misura di correnti alternate in un ampio range di valori: da 0.5A a 200A
- ✓ Compatta e leggera
- ✓ La forma delle pinze rende facile l'aggancio sui cavi, anche nelle zone più ridotte.
- ✓ Le pinze possono afferrare conduttori fino a 20 mm di diametro.
- ✓ La precisione che offre su tutto il campo di misura le consente un utilizzo molto ampio (dal civile all'industriale)
- ✓ La conformazione ne permette un uso sicuro anche indossando i guanti di sicurezza
- ✓ Dispone opzionalmente di adattatori per l'utilizzo con analizzatori Elcontrol di vecchia generazione, cioè privi di riconoscimento automatico delle pinze

COMPACT, STRONG AND PRECISE

- ✓ Can be used on NanoVIP® family analyzers without the need for external power supply or amplification.
- ✓ Equipped with automatic recognition system if used on the latest NanoVIP® series analyzers: TWO™, CUBE™ and QUADRA™
- ✓ Designed for the measurement of alternating currents in a wide range of values: from 0.5A to 200A
- ✓ Compact and light
- ✓ The shape of the pliers makes it easy to hook onto the cables, even in the smallest areas.
- ✓ The grippers can grip conductors up to 20 mm in diameter.
- ✓ The precision that it offers on the whole measuring range allows it a very wide use (from civil to industrial)
- ✓ The shape allows a safe use even when wearing safety gloves
- ✓ Optionally adapters are available to use it on older generation of Elcontrol analyzers, without automatic clamp recognition

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ELECTRICAL SPECIFICATIONS⁽¹⁾:

Measured range	0,5 A up to 240A					
Operating voltage	600V rms					
Output signal	5 mV AC / A AC (1,2 V for 240A)					
Accuracy and Phase shift	Primary current	0.5 A...5 A	5 A...15 A	15 A...40 A	40 A...100 A	100 A...240 A
	% Accuracy of output signal	≤ 2 % + 0,5 mV	≤ 1 % + 0,25 mV		≤ 1 %	≤ 0,5 %
	Phase shift	not specified	≤ 7°	≤ 5°	≤ 3°	≤ 1,5°
Bandwidth	40 Hz ...10 kHz					
Crest factor	3 for a current of 200A rms					
Maximum currents	200 A continuous for a frequency ≤ 1 kHz (derating proportional to the inverse of frequency beyond)					
Common mode voltage	600 V category III and pollution degree 2					
Influence of adjacent conductor:	≤ 15mA / A at 50 Hz					
Influence of conductor position in jaws:	≤ 0.5 % of output signal at 50 / 60 Hz					
Influence of DC current >20A overlying on the nominal current:	≤ 5%					
Influence of frequency ⁽²⁾ :	< 3% of output signal from 40Hz...1kHz					
	< 12% of output signal from 1kHz...10kHz					
Influence of crest factor:	< 3% of output signal for a crest factor of 3 and current of 200A rms					
⁽¹⁾ Conditions of reference	23 °C ± 5 °K, 20% to 75% RH Continuous external DC magnetic field (earth field) < 40 A/m Absence of external AC magnetic field External electrical field < 1 V/m Position of conductor measured: centred in the measurement coil Shape of measurement coil: quasi-circular Measurement instrument input impedance (oscilloscope) ≥ 1 MΩ Frequency and form of signal measured: 40 to 400 Hz sinusoidal					
⁽²⁾	Out of reference domain					

MECHANICAL SPECIFICATIONS:

Dimensions	135x51x30 mm
Weight	180g
Operating temperature	-10 °C to +55 °C
Storage temperature	-40 °C to +70 °C
Influence of temperature:	≤ 15% of output signal per 10 °K
Relative humidity for operation:	0 to 85% RH decreasing linearly above 35 °C
Influence of relative humidity:	< 0.2 % of output signal from 10% to 85% RH
Operating altitude	0 to 2000 m (for 600V CAT III)
Storage altitude	≤ 12000m
Clamping capacity:	Cable: Ø max 20 mm
	Busbar: 1 busbar of 20 x 5 mm
Drop test:	1 m (IEC 68-2-32)
Shock resistance:	100 g 6 ms ½ period (IEC 68-2-27)
Vibration resistance:	10/55/10 Hz, 0.15mm (IEC 68-2-6)
Casing protection rating	IP40 (IEC 529)
Self-extinguishing capability	Casing: UL94 V2 Jaws: UL94 V0

SAFETY

Electrical safety	Class II equipment with double or reinforced insulation between the primary and the secondary (winding connected to the connection cable) as per EN 61010-1 & EN 61010-2-032:
	- 1000V CAT III, pollution degree 2
	- 600V ACT III, pollution degree 2
	- Type-B sensor