

PINZA AMPEROMETRICA MN03

Current clamp MN03

Pinza amperometrica per correnti alternate da 0.2 A a 100 A caratterizzata da dimensioni particolarmente ridotte e un peso contenuto.

Amperometric mini-clamp for AC currents from 0.2 A to 100 A with with minimal dimensions and light weight.

La pinza amperometrica **MN03** è utilizzabile su tutti gli analizzatori della famiglia NanoVIP® per la misura delle correnti alternate **fino a 100 A**.

Le dimensioni particolarmente compatte e il peso ridotto ne fanno uno strumento particolarmente versatile, facilmente collocabile e con una minima occupazione di spazio.



EN The **MN03** current clamp can be used on all analyzers of the NanoVIP® family to measure AC currents **up to 100 A**.

The particularly compact dimensions make it a highly ergonomic tool, easy to place and with minimal space requirements.

COMPATTA, LEGGERA ED ECONOMICA

- ✓ Utilizzabile su analizzatori della famiglia NanoVIP® senza necessità di alimentazione o amplificazione esterna.
- ✓ Progettato per la misura di correnti alternate in un ampio range di valori: da 0.2A a 100A
- ✓ 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 10 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, LIGHT AND COST EFFECTIVE

- ✓ Can be used on NanoVIP® family analyzers without the need for external power supply or amplification.
- ✓ Designed for the measurement of alternating currents in a wide range of values: from 0.2A to 100A
- ✓ 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 10 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 | 0,2 A up to 100A | | |
| Operating voltage | 600V rms | | |
| Output signal | 10 mV AC/ A AC (1,0 V for 100 A) | | |
| Accuracy and Phase shift | Primary Current | Accuracy in % | Phase Shift |
| | from 0A up to 1A | not specified | not specified |
| | from 1A up to 20A | ≤2% + 10mA | ≤7° |
| | from 20A up to 40A | ≤1% + 20mA | ≤5° |
| | from 40A up to 100A | ≤1% | ≤3° |
| Bandwidth | 48 Hz ...500 kHz | | |
| Crest factor | ≤ 0,2 % per 10°K | | |
| Maximum currents | < 150 A permanent from 48 Hz.. 500 Hz | | |
| Load impedance | > 10 kΩ | | |
| Influence of adjacent conductor | ≤ 2 mA / A at 50 Hz | | |
| Influence of conductor position in jaws | ≤ 0.1 % at 50/60 Hz | | |
| Influence of frequency : | ≤ 1 % from 65 Hz to 500 Hz | | |
| Common mode voltage | 600 V category III and pollution degree 2 | | |

MECHANICAL SPECIFICATIONS:

| | |
|-------------------------------------|--|
| Dimensions | 112 x 37 x 25 mm (without cable) |
| Weight | 180 g approx |
| Colours | Black casing |
| Connection cable | 1m |
| Connection | DA.406 with 4 PINS |
| Operating temperature | -10 °C to +50°C |
| Storage temperature | -40 °C to +80 °C |
| Influence of temperature | ≤ 0.15 % 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 2000m |
| Clamping capacity | Cable: Ø max 10 mm |
| Casing protection rating | IP40 ⁽²⁾ (EN 60529 Ed.1992) |
| Drop test | 1,5 m (IEC 68-2-32) |
| Shock resistance | 100 g / 6ms / half-period (IEC 68-2-27) |
| Vibration resistance ⁽³⁾ | 5-15 Hz (1,5 mm), 15-25 Hz (1 mm), 25-55 Hz (0.25 mm) (IEC 68-2-6) |
| Self-extinguishing capability | Casing: UL94 V2 |

SAFETY

| | |
|-------------------------------------|---|
| Electrical safety | Instrument with double insulation or reinforced insulation between the primary, the secondary and the grippable part located under the guard as per EN61010-1 Ed. 2:2001 EN61010-2-031 Ed. 2002 & EN61010-2-032 Ed. 2003 - 600 V category III, pollution degree 2 - 300 V category IV, pollution degree 2 |
| Electromagnetic compatibility (EMC) | CE-certified equipment compliant with standard EN 61326-1)Ed.97) + A1 (Ed.98) + A2 (Ed. 01) - Emission: stipulations for class B equipment (domestic use). - Immunity: stipulations for equipment used intermittently on industrial sites. |

(1) Conditions of reference: 23 °C ± 3 °K, 20 °C to 75 % RH, sinusoidal signal with frequency of 48 Hz to 65 Hz, distortion factor

(2) With clamp closed

(3) Vibration expressed in mm peak, scanning of 1 octave/minute for 10 minutes on 3 axes