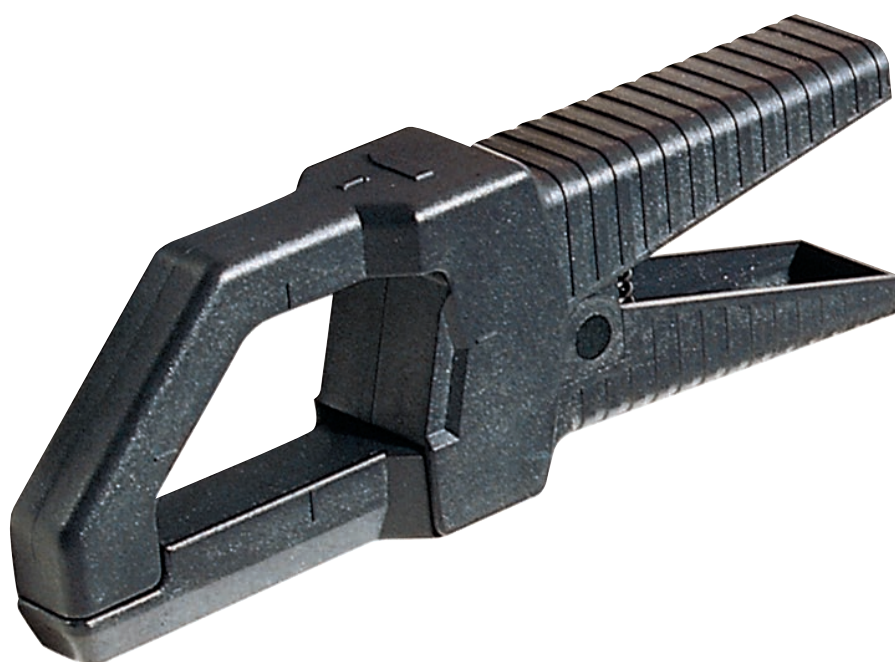




Y_N SERIES

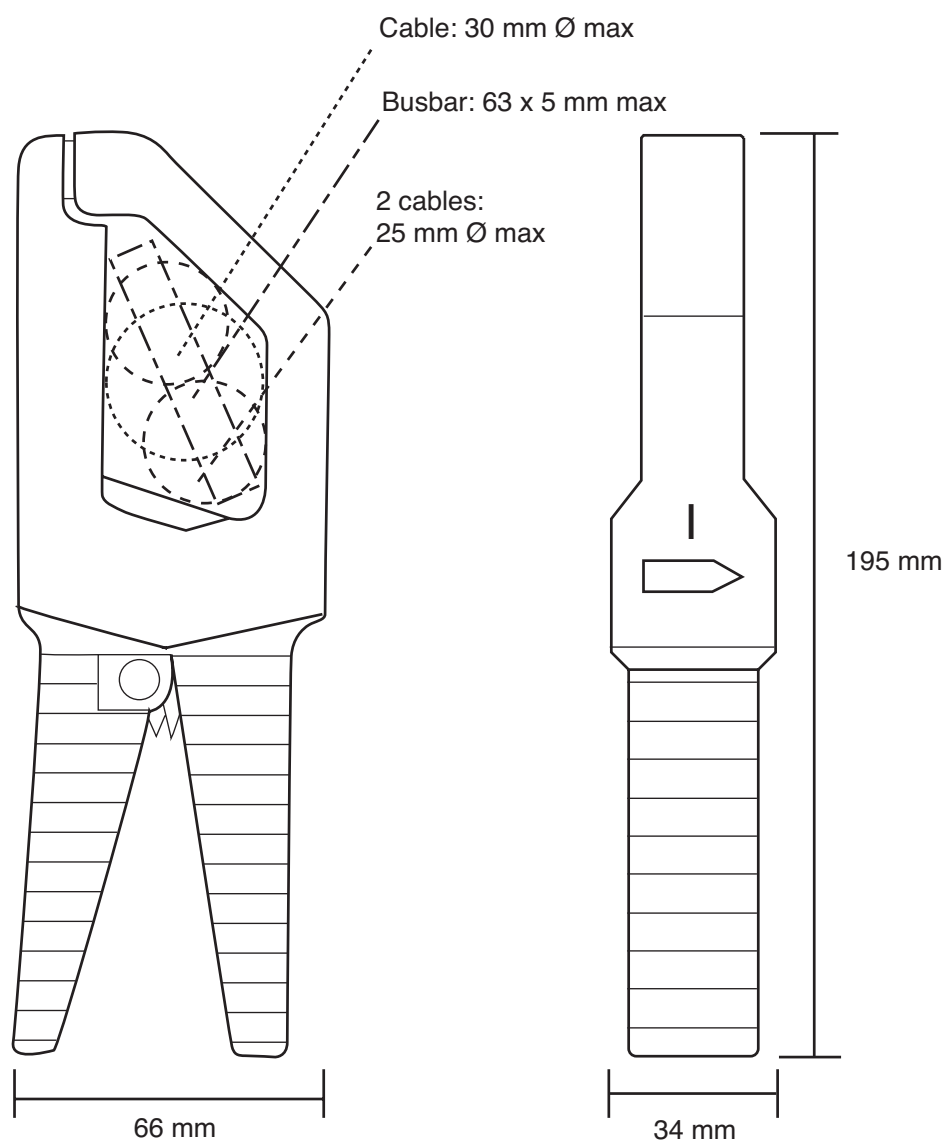
The Y series clamps are designed to be both rugged and versatile whilst remaining easy to use. The jaws are designed so that the clamps can be hooked onto cables or clamped onto busbars for current measurement up to 600 A AC.

There are two types of Y series clamps available:

The first acts as a current transformer (ratios of 100:1 or 1000:1), giving an output current that may be read by a multimeter, logger or other suitable devices with appropriate current calibres.

The other kind of Y series clamp has a DC voltage output proportional to the AC current measured, allowing instruments without current calibres to measure, display and record currents on a DC voltage calibre.

There is also a model available specifically for direct use with oscilloscopes.



Current clamp for AC current

Model Y3N

Y_N serie

Current	500 A AC
Ratio	100/1
Output	10 mA/A

ELECTRICAL SPECIFICATIONS

- **Current range:**
4 A AC .. 600 A AC
- **Current transformation ratio:**
100:1
- **Output signal:**
10 mA AC/A AC
- **Accuracy ⁽¹⁾:**

Primary current	4 A	25 A	100 A	250 A	500 A	600 A ⁽²⁾
Accuracy in % of output signal	5 % + 5 mA	5 %	3 %	3 %	3 %	3 %
Phase shift	not specified	6°	5°	3°	3°	3°

class 3 at 2.5 VA

- **Bandwidth:**
48 Hz .. 1,000 Hz
- **Load impedance:**
0.1 Ω max
- **Overload:**
700 A for 10 minutes
- **Maximum output voltage (secondary open):**
Electronic protection circuit limiting voltage to 10 V peak max
- **Operating voltage:**
600 V_{RMS}
- **Common mode voltage:**
30 V_{RMS}
- **Influence of adjacent and parallel conductors:**
< 30 mA/A at 50 Hz
- **Influence of conductor position in jaws:**
±1 %

MECHANICAL SPECIFICATIONS

- **Operating temperature:**
15 °C .. +50 °C
- **Storage temperature:**
-40 °C .. +85 °C
- **Influence of temperature:**
< 0.1 % per 10 °K
- **Operating altitude:**
0 to 2,000 m
- **Max. jaw opening:**
33 mm
- **Clamping capacity:**
Cable: Ø max 30 mm
Busbar: 63 x 5 mm
- **Casing protection rating:**
IP20 in accordance with IEC 529
- **Drop test:**
1.5 m (IEC 68-2-32)
- **Shock resistance:**
100 g, in accordance with IEC 68-2-27
- **Vibration resistance:**
10/55/10 Hz, 0.15 mm test in accordance with IEC 68-2-6
- **Self-extinguishing capability:**
UL94 V0

- **Dimensions:**
66 x 195 x 34 mm
- **Weight:**
420 g
- **Colour:**
Dark grey
- **Output:**
1.5 m two-wire lead with double or reinforced insulation terminated by 2 elbowed male safety plugs (4 mm)

SAFETY SPECIFICATIONS

- **Electrical safety:**
Double or reinforced insulation between the primary and secondary circuits and the outer casing in accordance with IEC 1010-2-032.
 - 600 V category III, pollution degree 2
 - 300 V category IV, pollution degree 2
- **Electromagnetic compatibility (EMC):**
EN 50081-1: class B
EN 50082-2:
 - Electrical discharge: IEC 1000-4-2
 - Radiated field: IEC 1000-4-3
 - Fast transients: IEC 1000-4-4
 - Magnetic field at 50/60 Hz: IEC 1000-4-8

(1) Conditions of reference: 23 °C ± 5 °K, 20 % to 75 % RH, 48 Hz to 65 Hz, external magnetic field < 40 A/m, no current-carrying conductor nearby, centred test sample, load impedance 0.1 Ω.

(2) 700 A for 10 minutes max.

To order	Reference
AC current clamp model Y3N with operating manual	P01120029A

