

Current clamp set 5 A/50 A 1-, 3-phase and 3-phase+N

Technical Data

These current clamp sets have been designed for applications with Fluke 1735 and Fluke 1740 series products for accurate non intrusive measurement of ac currents. Using latest technologies (integrated memory for calibration data) provides current ranges from 0.125 A up to 50 A in a frequency range of 40 Hz to 5 kHz. The clamps are approved for the required installation category.



Electrical specifications

Nominal current I_n	5/50 A ac r.m.s.
Overload	Up to 65 A ac r.m.s.
Max. non-destructive current	200 A ac r.m.s.
Conductor position influence	< 0.5 % of range at 50/60 Hz
Error due to adjacent conductor	≤ 15 mA/A at 50 Hz
Phase shift at 2 kHz at 200 A	< ± 1 degree
Frequency range	40 Hz to 5 kHz (- 3 dB)
Temperature coefficient	0.015 % of range/°C
Working voltage (see section safety)	600 V ac r.m.s. or dc

Accuracy (at 50 Hz)

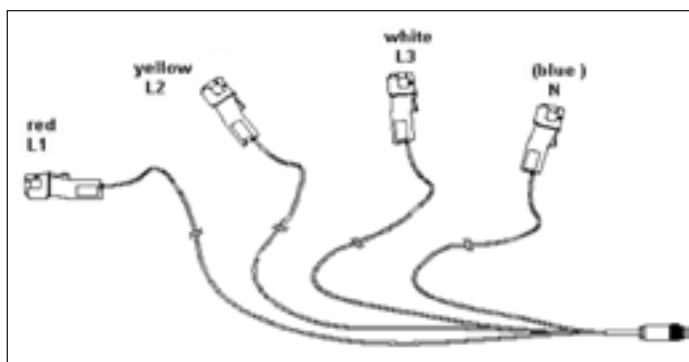
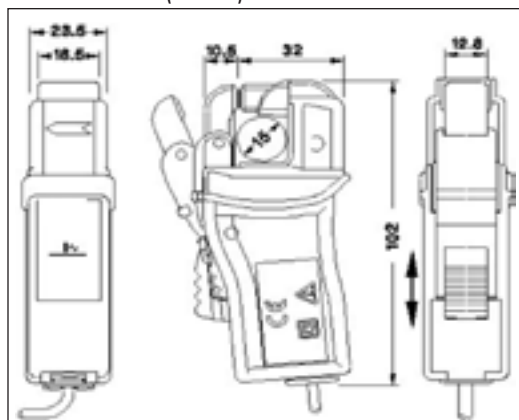
Primary current	0.125 A to 2.5 A	2.5 A to 12.5 A	12.5 A to 25 A	25 A to 50 A
Operating error in % of reading	± 2.5 %	± 1.5 %	± 0.5 %	± 0.5 %
Phase shift	Not specified	< 2°	< 0.5°	< 1°

General specifications

Maximum conductor size	15 mm diameter, bus bar 15 mm x 17mm
Cable length	2 m
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-20 °C to +70 °C
Operating humidity	15 % to 85 % r.h. (non-condensing)
Weight (per clamp)	175 g
Environment temperature range	+18 °C to +26 °C
Humidity	20 % to 75 % r.h.
Current	Sinusoidal waveform, 48 Hz to 65 Hz, distortion factor: < 1 %, no dc component
Safety standards	IEC/EN61010-1: 2001 IEC/EN61010-2-032:2002 IEC/EN61010-031:2002
EMC standards	IEC/EN 61326-1:2006
Safety	600 V CAT III, pollution degree 2

The current clamps are designed for use on **insulated conductors**. For using it with **uninsulated conductors** you have to switch off before attaching the clamp. The application of the clamps on **uninsulated conductors** is limited to 600 V ac r.m.s. or dc to ground and frequencies below 1 kHz.

Dimensions (in mm)



Symbols

	Do not apply around or remove from HAZARDOUS LIVE conductors.
	Product is protected by double insulation.
	Risk of Danger. Important information. See Instruction Sheet.
	Risk of Electric Shock.
	Canadian Standards Association has certified that the product meets applicable U.S. and Canadian Standards.
	Conforms to relevant European Union directives.

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Ordering information

3-phase: 3024436 15A/50A Clamp PQ3

3-phase+N: 3024449 15A/50A Clamp PQ4