

Current clamp set 1 A/10 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 0.025 A up to 10 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	1 A/10 A ac r.m.s.
Overload	Up to 13 A ac r.m.s.
Max. non-destructive current	100 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)

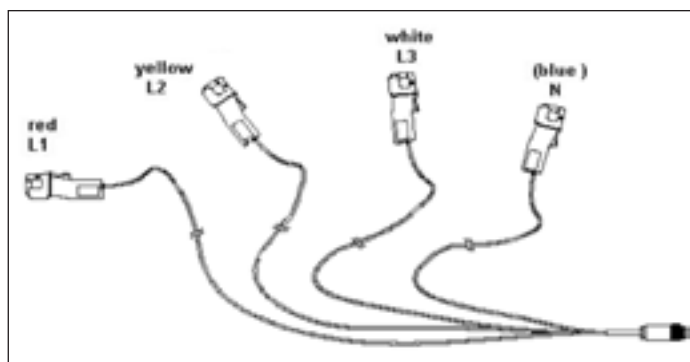
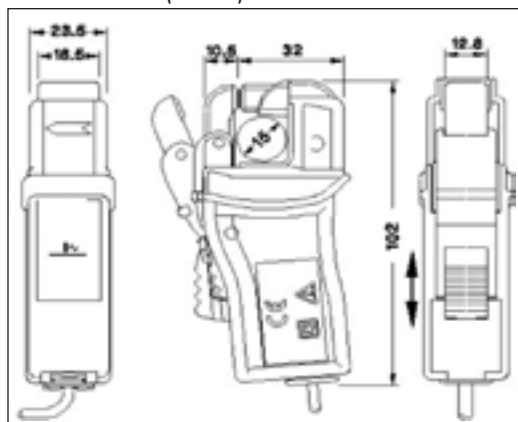
Primary current	0.025 A to 0.5 A	0.5 A to 2.5 A	2.5 A to 5 A	5 A to 10 A
Operating error in % of reading	± 2.5 %	± 1.5 %	± 0.5 %	± 0.5 %
Phase shift	Not specified	< 2°	< 0.5°	< 1°

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.

Fluke. *Keeping your world up and running.*®

Fluke Corporation
PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.
PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:
In the U.S.A. (800) 443-5853 or
Fax (425) 446-5116
In Europe/M-East/Africa +31 (0) 40 2675 200 or
Fax +31 (0) 40 2675 222
In Canada (800)-36-FLUKE or
Fax (905) 890-6866
From other countries +1 (425) 446-5500 or
Fax +1 (425) 446-5116
Web access: <http://www.fluke.com>

©2009 Fluke Corporation.
Specifications subject to change without notice.
Printed in U.S.A. 11/2009 3564647A D-EN-N

Modification of this document is not permitted without written permission from Fluke Corporation.

Ordering information

3-phase: 3024413 11A/10A Clamp PQ3

3-phase+N: 3024424 11A/10A Clamp PQ4