

## Current clamp set 20 A/200 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 0.5 A up to 200 A in a frequency range of 40 Hz to 5 kHz. The clamps are approved for the required installation category.



### Electrical specifications

|                                      |                              |
|--------------------------------------|------------------------------|
| Nominal current $I_n$                | 20 / 200 A ac r.m.s.         |
| Overload                             | Up to 260 A ac r.m.s.        |
| Max. non-destructive current         | 300 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)

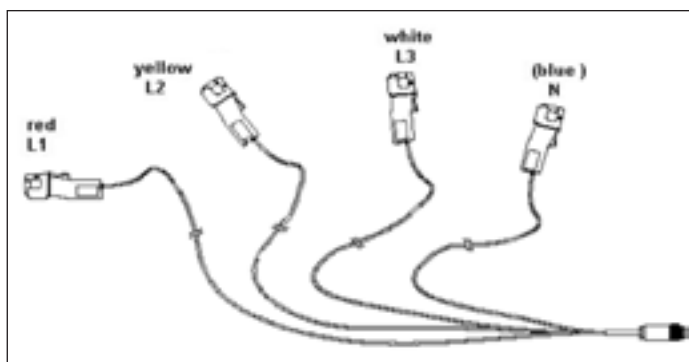
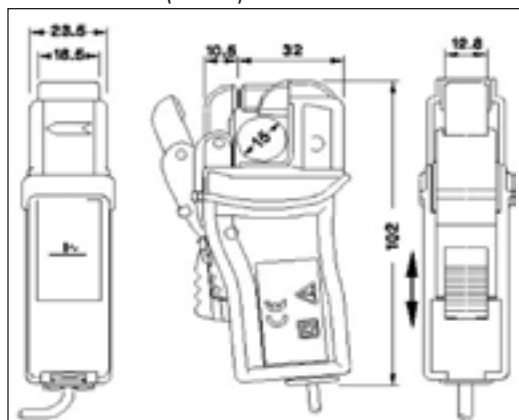
|                                 |               |              |               |                |
|---------------------------------|---------------|--------------|---------------|----------------|
| Primary current                 | 0.5 A to 10 A | 10 A to 50 A | 50 A to 100 A | 100 A to 200 A |
| 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<br>IEC/EN61010-2-032:2002<br>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: 3024451 I20/200A Clamp PQ3

3-phase+N: 3024460 I20/200A Clamp PQ4