

3000A/6000A Flex 4 for 174x and 173x PQ Analyzers

Technical Data

These current probe 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 0.8 A up to 6000 A in a frequency range of 40 Hz to 5 kHz. The flexis are approved for the required installation category.



Electrical specifications






Input ranges I_1 , L1, L2, L3, N	30/300/3000/6000 A ac
Measuring range	0.8 A to 6000 A ac
Intrinsic error	<2 % of I_1
Position influence	max. ± 2 % of m.v. for distance conductor to measuring head >30 mm
Stray field influence	< ± 2 A for $I_{ext} = 500$ A ac and distance to measuring head >200 mm
Temperature coefficient	<0.05 % / K
Current transformer	ratio : ≤ 999 kA / $\leq I_1$
Ratio selection	by job programming for 174x series by setup menu for 1735
Connection	3-phase, 3-phase + N 2-phase L1 and L3 (2W-meter-method) 7 pole connector

General specifications

Cable length	4 m
Length of measuring head	122 cm
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-20 °C to +90 °C
Operating humidity	10 % to 80 % (non-condensing)
Weight	1.5 kg
Environment temperature range	+18 °C to +26 °C
Humidity	20 % to 75 % r.h.
Current	Nominal value In, sinusoidal waveform, 48 Hz to 65 Hz, distortion factor: < 1 %, no dc component, stray field <40 A/m, conductor centred within LEM-flex
Safety standards	IEC/EN61010-1:2001 IEC/EN61010-2-032:2002 IEC/EN61010-031:2002
EMC standards	IEC/EN 61326-1:2006
Safety	1000 V CAT III, 600 V CAT IV, pollution degree 2

The application of the LEM-flex on **uninsulated conductors** is limited to 1000 V ac r.m.s. or dc to ground and frequencies below 1 kHz.

Symbols

	Do not apply around or remove from HAZARDOUS LIVE conductors, without using protective gloves.
	Product is protected by double insulation.
	Risk of Danger. Important information. See Instruction Sheet.
	Canadian Standards Association has certified that the product meets applicable U.S. and Canadian Standards.
	Conforms to relevant European Union directives.

Ordering information

3000/6000A FLEX 4: 3024472

3000A/6000A 36 inch Flexi Probe, 4 Phase

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