



**Multi range AC current clamps
(0.5A / 5A / 50A)
A 1588**

Technical Specifications

General

Safety specification

Over voltage category: 600 V CAT II,

Pollution degree: 2

Double insulation

Environment conditions

Working temperature: $-10\text{ }^{\circ}\text{C} \div 50\text{ }^{\circ}\text{C}$

Storage temperature: $-20\text{ }^{\circ}\text{C} \div 70\text{ }^{\circ}\text{C}$

Humidity: $0\% \div 85\%$,

Linearly decreasing for $T > 35\text{ }^{\circ}\text{C}$

Altitude: $\leq 2000\text{ m}$

Applied standards

Safety: EN/IEC 61010-1

EN/IEC 61010-2-32

EMC: EN/IEC 61326-1

Accuracy And Phase Error

Reference conditions: Temperature: $23\text{ }^{\circ}\text{C} \pm 1\text{ }^{\circ}\text{C}$ Humidity: 60 %		Current range		
Nominal current (I_{Nom})		0.5 A	5 A	50 A
Peak current		$1.5 A_{\text{PEAK}}$	$15 A_{\text{PEAK}}$	$150 A_{\text{PEAK}}$
Crest factor @ Nominal current		3,0	3,0	3,0
Accuracy	Current range*	$50\text{ mA} \div 1\text{ A}$	$0.5\text{ A} \div 10\text{ A}$	$5\text{ A} \div 100\text{ A}$
	RMS Current Accuracy	0.5 % of m.v.	0.5 % of m.v.	0.5 % of m.v.
	Frequency range	$40\text{ Hz} \div 700\text{ Hz}$ ($<0.5^{\circ}$ phase error) $700\text{ Hz} \div 2500\text{ Hz}$ ($<3^{\circ}$ phase error)		
Continuity of measurements		100 A continuous 120 A (40 min / 20 min intermitted)		
Load impedance		$< 1\text{ k}\Omega$		
Working voltage		600 Vrms		
Influence of neighbour conductor:		$< 1\text{ mA/A}$ at 50 Hz		
Influence of conductor position:		$< 0.3\%$ at $f < 400\text{ Hz}$		

*Accuracy for $0 \div 10\%$ range is $0.1\% \cdot I_{\text{Nom}}$

m.v. – measured value