

HT77C

Rel. 1.00 – 24/09/2020

Leakage current clamp meter with Class 2 compliance

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1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated as $\pm[\% \text{ readings} + (\text{number of digits} * \text{resolution})]$ at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$; $<80\% \text{RH}$

AC TRMS Current

Range	Resolution	Accuracy (30Hz ÷ 50Hz)	Accuracy (51Hz ÷ 60Hz)	Accuracy (61Hz ÷ 1kHz)
6.000mA (*)	0.001mA	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$ (**)	$\pm(1.0\% \text{rdg} + 5 \text{dgt})$	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$ (***)
60.00mA	0.01mA			
600.0mA	0.1mA			
6.000A	0.001A	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$		$\pm(2.0\% \text{rdg} + 5 \text{dgt})$
60.00A	0.01A			

(*) Minimum reading 10 μA ; (**) Frequency response: 15Hz÷50Hz;. For frequency <30Hz add 3%rdg

(***) Frequency response: 60Hz÷10kHz. For frequency >1kHz add 0.5%rdg to the accuracy

Accuracy declared for sinusoidal waveform; Overload protection 60Arms;

Error due of position cable not in centre of jaws: $\pm 1\% \text{rdg}$

Additional error due to the Crest Factor (CF) of non-sinusoidal signals:

C.F: 1.0 ÷ 2.0 → Add 1.0%rdg

C.F: 2.0 ÷ 2.5 → Add 2.5%rdg

C.F: 2.5 ÷ 3.0 → Add 4.0%rdg

Max. Crest Factor:

3.0 @ up to 3000dgt ; 2.0 @ 3000 ÷ 4500dgt; 1.5 @ 4500 ÷ 6000dgt

AC TRMS Current with internal 50Hz-60Hz low pass filter

Range	Resolution	Accuracy (30Hz ÷ 50Hz)	Accuracy (51Hz ÷ 60Hz)
6.000mA (*)	0.001mA	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$ (**)	$\pm(1.0\% \text{rdg} + 5 \text{dgt})$
60.00mA	0.01mA		
600.0mA	0.1mA		
6.000A	0.001A	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$	
60.00A	0.01A		

(*) Minimum reading 10 μA ; (**) Frequency response: 15Hz÷50Hz;. For frequency <30Hz add 3%rdg

Error due of position cable not in centre of jaws: $\pm 1\% \text{rdg}$

Cutting frequency: approx. 200Hz

Overload protection 60Arms

AC TRMS Current with internal 1kHz low pass filter

Range	Resolution	Accuracy (30Hz ÷ 50Hz)	Accuracy (51Hz ÷ 60Hz)	Accuracy (61Hz ÷ 1kHz)
6.000mA (*)	0.001mA	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$ (**)	$\pm(1.0\% \text{rdg} + 5 \text{dgt})$	$\pm(2.5\% \text{rdg} + 5 \text{dgt})$
60.00mA	0.01mA			
600.0mA	0.1mA			
6.000A	0.001A	$\pm(2.0\% \text{rdg} + 5 \text{dgt})$		
60.00A	0.01A			

(*) Minimum reading 10 μA ; (**) Frequency response: 15Hz÷50Hz;. For frequency <30Hz add 3%rdg

Error due of position cable not in centre of jaws: $\pm 1\% \text{rdg}$

Cutting frequency: approx. 1kHz

Overload protection 60Arms

2. GENERAL SPECIFICATIONS

Features

Block of readings at display:	Data HOLD
MAX/MIN:	MAX/MIN reading of measured current
Low pass filter:	50-60Hz e 1kHz to erase harmonic components
Backlight:	backlight display
Torch:	white LED light
Bluetooth interface:	connection to mobile devices with HTLeakage APP
Logger feature:	recordings by using HTLeakage APP

Mechanical specifications

Dimensions (L x W x H):	230 x 30 x 24mm
Weight (including batteries):	500g
Max conductor size:	40mm
Mechanical protection:	IP20

Power supply

Power supply:	2x1.5V batteries type AA LR06
Life battery:	about 60 hours of continuous operation
Auto Power OFF:	after 20 minutes of idleness

Display

Features:	LCD, 4 dgt, 6000 points, backlight and decimal point
Sampling rate:	5 times/s
Over range indication:	"OL" message at display
Conversion mode:	TRMS

Climatic conditions

Reference temperature:	23°C ± 5°C
Operating temperature:	-10°C ÷ 30°C (RH%≤80%) 30°C ÷ 40°C (RH%≤75%) 40°C ÷ 50°C (RH%≤45%)
Operating humidity:	<80%RH
Storage temperature:	-20°C ÷ 60 °C
Storage humidity:	<80%RH
Max height of use:	2000m
Vibrations:	according to MIL-PRF-28800F Class 2

Reference standards

Safety:	IEC/EN61010-1, IEC/EN61010-2-032
EMC :	IEC/EN61326-1
Application :	IEC/EN61557-13 Class 2, IEC/EN61557-16
Insulation:	double insulation
Pollution level:	2
Installation category:	CAT III 600V

This instrument satisfies the requirements of Low Voltage Directive 2014/35/EU (LVD) and of EMC Directive 2014/30/EU

This instrument satisfies the requirements of 2011/65/EU (RoHS) directive and 2012/19/EU (WEEE) directive