HT9019
PROFESSIONAL AMPEROMETRIC CLAMP AC 1000A TRMS CAT IV

The professional amperometric clamp HT9019 has been designed for measuring AC current up to 1000A in TRMS for reaching CAT IV 600V in compliance with standard IEC/EN61010-1. The clamp is provided with a wide display with 6000 reading dots, backlighting and analogue bargraph to facilitate reading also in poorly lit environments. Clamp HT9019 has an auto power off function in order to preserve its internal battery.

FUNCTIONS

- Measurements in TRMS
- AC current up to 1000A
- AC/DC voltage up to 1000V
- Resistance and continuity test
- "Voltsense" for detecting AC/DC voltage
- Autorange
- Data HOLD
- MAX/MIN
- Peak current (<10ms)
- Bargraph
- Backlight
- AutoPowerOff

TECHNICAL SPECIFICATIONS

DC voltage (Autorange)	
Measuring range:	0.01mV ÷ 1000V
Basic accuracy:	±(1.0%reading + 3digits)
AC TRMS voltage (Autorange)	
Measuring range:	0.001V ÷ 1000V
Bandwidth:	50Hz ÷ 400Hz
Basic accuracy:	±(1.0%reading + 4digits)
AC TRMS current	
Measuring range:	0.01A ÷ 1000A
Bandwidth:	50Hz ÷ 400Hz
Basic accuracy:	±(2.8%reading + 8digits)
Resistance and continuity test	
Measuring range:	0.1Ω ÷ 60MΩ
Basic accuracy:	±(1.0%rdg + 5dgt)
Continuity buzzer:	<50Ω

GENERAL SPECIFICATIONS

Display:	LCD, 4 digits, 6000 dots
Conversion type:	TRMS
Power supply:	1x9V battery type IEC 6F22
AutoPowerOff:	after 15 min of idleness
Clamp inner diameter:	45mm
Safety:	IEC/EN61010-1
Measurement category:	CAT IV 600V – CAT III 1000V
Insulation:	double insulation
Pollution degree:	2
Dimensions (LxWxH):	252x88x44mm
Weight (batteries included):	420g

ACCESSORIES

Standard
Pair of probes
Battery
Transport bag
User manual

HT9019
HP009019

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1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as [% rdg + number of dgt) x resolution]. It is referred to 18°C ÷ 28°C with 75%RH

DC Voltage (Autorange)

Range	Resolution	Accuracy	Input impedante	Overload protection
600.0mV	0.01mV	±(1.0%rdg + 3dgt)	10MΩ	1000VDC/ACrms
6.000V	0.001V			
60.00V	0.01V			
600.0V	0.1V			
1000V	1V			

AC Voltage TRMS (Autorange)

Range	Resolution	Accuracy	Input impedante	Bandwith	Overload protection
6.000V	0.001V	±(1.0%rdg + 4dgt) (50 ÷ 60Hz) ±(3.5%rdg + 5dgt) (61 ÷ 400Hz)	10MΩ	50 ÷ 400Hz	1000VDC/ACrms
60.00V	0.01V				
600.0V	0.1V				
1000V	1V				

Integrated sensor for AC voltage detection: LED turn on for phase-earth voltage > 100V, 50/60Hz

Resistance and Continuity test (Autorange)

Range	Resolution	Accuracy	Buzzer	Overload protection
600.0Ω	0.1Ω	±(1.0%rdg + 5dgt)	≤ 50Ω	600VDC/ACrms
6.000kΩ	0.001kΩ			
60.00kΩ	0.01kΩ			
600.0kΩ	0.1kΩ			
6.000MΩ	0.001MΩ			
60.00MΩ	0.01MΩ	±(2.0%rdg + 10dgt)		

Test current of continuity test: < 0.35mA

AC TRMS Current

Range	Resolution	Accuracy	Bandwith	Overload protection
60.00A	0.01A	±(2.8%rdg + 12dgt)	50 ÷ 60Hz	1000Arms
600.0A	0.1A	±(2.8%rdg + 8dgt)		
1000	1A	±(3.0%rdg + 8dgt)		
60.00A	0.01A	±(4.5%rdg + 10dgt)	61 ÷ 400Hz	
600.0A	0.1A	±(5.0%rdg + 10dgt)		
1000	1A			

PEAK features: response time <10ms

2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size:	252(L) x 88(La) x 51(H)mm
Weight (including battery):	420g
Max conductor size:	45mm

Supply

Battery type:	1 battery 9V NEDA 1604 IEC 6F22 JIS 006P.
Low battery indication:	"+ III" is displayed when the battery level is too low.
Battery life:	about 200 hours
AutoPowerOff:	about 15 minutes of idleness

Display

Characteristics:	4 LCD (max 6000 counts), decimal point, unit symbol indication, bargraph and backlight
Sample rate:	2 times/sec
Conversion mode:	TRMS

Climatic conditions

Reference temperature:	18°C ÷ 28°C
Operating temperature:	5 ÷ 40 °C
Operating humidity:	<80%RH
Storage temperature:	-20 ÷ 60 °C
Storage humidity:	<80%RH

Reference standards

Comply with:	IEC/EN 61010-1
Insulation:	double insulation
Pollution:	Level 2
For inside use, max height:	2000m
Installation category:	CAT IV 600V, CAT III 1000V to the ground

This product conforms to the prescriptions of the European directive on low voltage 2006/95/EEC and to EMC directive 2004/108/EEC