

HT9021 - HT9015

AMPEROMETRIC CLAMPS AC/DC 1000A AND 600A TRMS CAT IV

HT9021 and HT9015 have been designed for measuring AC/DC current respectively up to 1000A and up to 600A in TRMS reaching CAT IV 600V in compliance with standard IEC/EN61010-1. The clamps are provided with a wide display with 6000 reading dots, backlighting and analog bargraph to facilitate reading also in poorly lit environments. These models also carry out resistance, frequency, capacitance, temperature with type K probes and duty cycle measurements.

FUNCTIONS

- Measurements in TRMS
- AC/DC current up to 1000A (HT9021)
- AC/DC current up to 600A (HT9015)
- Resistance and continuity test
- "Voltsense" for detecting AC/DC voltage
- Frequency
- Capacitance
- Temperature with K-type probe
- Diode test
- Duty Cycle
- Autorange
- Data HOLD
- MAX/MIN
- Peak current (<10ms)
- Relative measurement
- Bargraph
- Backlight
- AutoPowerOFF

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 (HT9021) 30mm (HT9015)
Safety:	IEC/EN61010-1
Insulation:	double insulation
Pollution degree:	2
Measurement category:	CAT IV 600V - CAT III 1000V
Dimensions (LxWxH):	252x88x44mm (HT9021) 210x75x45mm (HT9015)
Weight (batteries included):	420g (HT9021) 400g (HT9015)

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)
DC current	
Measuring range:	0.01A ÷ 1000A (HT9021) 0.01A ÷ 600A (HT9015)
Basic accuracy:	±(2.0%reading + 8digits)
AC TRMS current	
Measuring range:	0.01A ÷ 1000A (HT9021) 0.01A ÷ 600A (HT9015)
Bandwidth:	50Hz ÷ 400Hz
Basic accuracy:	±(2.8%reading + 8digits)
Resistance and continuity test	
Measuring range:	0.1Ω ÷ 60MΩ
Basic accuracy:	±(1.0%reading + 5digits)
Continuity buzzer:	<50Ω
Frequency with clamp and probes	
Measuring range:	0.01Hz ÷ 60kHz
Basic accuracy:	±(1.0%reading + 5digits)
Capacitance	
Measuring range:	0.01nF ÷ 4mF
Basic accuracy:	±(2.5%reading + 5digits)
Temperature with K-type probe	
Measuring range:	-20°C ÷ 760°C; -4°F ÷ 1400°F
Basic accuracy:	±(2.0%reading + 3°C); ±(2.0%reading + 6°F)

HT9021
HP009021

HT9015
HP009015



ACCESSORIES

Standard

- Pair of probes
- K-type wire probe + adapter
- Battery
- Transport bag
- User manual

Optional

- K-type thermocouples



宇宏企業股份有限公司

台北：三重區重新路五段609巷16號6樓之1 新竹：新竹縣竹北市台元26號4樓之10
TEL:02-22782269 FAX:02-22782059 TEL:03-552-6779 FAX:03-552-6739
<http://www.fluke-tektronix.tw> <http://www.radiotek.com.tw>



HT9015

Rel. 1.02 of 12/07/10

DC/AC TRMS professional clamp meter up to 600A

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1. ELECTRICAL SPECIFICATIONS

Accuracy is calculated 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 impedance	Overload protection
600.0mV	0.01mV	$\pm(1.0\%rdg + 3dgt)$	10M Ω	1000VDC/ACrms
6.000V	0.001V			
60.00V	0.01V			
600.0V	0.1V			
1000V	1V			

AC TRMS Voltage (Autorange)

Range	Resolution	Accuracy	Input impedance	Bandwidth	Overload protection
6.000V	0.001V	$\pm(1.0\%rdg + 10dgt)$ (50 ÷ 60Hz) $\pm(3.5\%rdg + 5dgt)$ (61 ÷ 400Hz)	10M Ω	50 ÷ 400Hz	1000VDC/ACrms
60.00V	0.01V	$\pm(1.0\%rdg + 4dgt)$ (50 ÷ 60Hz)			
600.0V	0.1V	$\pm(1.0\%rdg + 4dgt)$ (50 ÷ 60Hz)			
1000V	1V	$\pm(3.5\%rdg + 5dgt)$ (61 ÷ 400Hz)			

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
600.0 Ω	0.1 Ω	$\pm(1.0\%rdg + 5dgt)$	$\leq 60\Omega$	600VDC/ACrms
6.000k Ω	0.001k Ω			
60.00k Ω	0.01k Ω			
600.0k Ω	0.1k Ω			
6.000M Ω	0.001M Ω			
60.00M Ω	0.01M Ω	$\pm(2.0\%rdg + 10dgt)$		

Test current of continuity test: < 0.35mA

DC Current

Range	Resolution	Accuracy	Overload protection
60.00A	0.01A	$\pm(2.2\%rdg + 10dgt)$	600AACrms
600.0A	0.1A	$\pm(2.0\%rdg + 8dgt)$	

AC TRMS Current

Range	Resolution	Accuracy	Bandwith	Overload protection
60.00A	0.01A	$\pm(2.2\%rdg + 12dgt)$	50 ÷ 60Hz	600Arms
600.0A	0.1A	$\pm(2.2\%rdg + 8dgt)$		
60.00A	0.01A	$\pm(3.5\%rdg + 12dgt)$	61 ÷ 400Hz	
600.0A	0.1A	$\pm(3.5\%rdg + 8dgt)$		

PEAK features: response time <10ms



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http://www.fluke-tektronix.tw新竹: 新竹縣竹北市台元26號4樓之10
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Capacitance (Autorange)

Range	Resolution	Accuracy	Overload protection
40.00nF	0.01nF	$\pm(3.5\%rdg + 40dgt)$	600VACrms
400.0nF	0.1nF	$\pm(2.5\%rdg + 5dgt)$	
4.000 μ F	0.001 μ F		
40.00 μ F	0.01 μ F		
400.0 μ F	0.1 μ F		
4000 μ F	1 μ F	$\pm(5.0\%rdg + 5dgt)$	

Diode test

Feature	Test current	Open voltage
	0.9mA typical	2.8VDC

Frequency with test leads (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
99.99Hz	0.01Hz	$\pm(1.0\%rdg + 5dgt)$	> 15Vrms	600VDC/ACrms
999.9Hz	0.1Hz			
9.999kHz	0.001kHz			
60.00kHz	0.01kHz			

Frequency with jaws (Autorange)

Range	Resolution	Accuracy	Sensitivity	Overload protection
99.99Hz	0.01Hz	$\pm(1.0\%rdg + 5dgt)$	>10Arms (60A) >50Arms (600A)	600AACrms
999.9Hz	0.1Hz			
9.999kHz	0.001kHz			

Duty Cycle (Autorange)

Range	Resolution	Sensitivity	Accuracy
0.5% ÷ 99.0%	0.1%	> 15Vrms	$\pm(1.2\%rdg + 2dgt)$

Temperature with type K probe (Autorange)

Range	Resolution	Accuracy (*)	Overload protection
-20.0 ÷ 400.0°C	0.1°C	$\pm(2.0\%rdg + 3°C)$	600VDC/ACrms
400 ÷ 760°C	1°C	$\pm(2.0\%rdg + 5°C)$	
-4.0 ÷ 752.0°F	0.1°F	$\pm(2.0\%rdg + 6°F)$	
752 ÷ 1400°F	1°F	$\pm(2.0\%rdg + 9°F)$	

(*) Accuracy of type K probe not considered



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2. GENERAL SPECIFICATIONS

Mechanical characteristics

Size:	215(L) x 74(La) x 43(H)mm
Weight (including battery):	285g
Max conductor size:	30mm

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