

HT321 - HT322 - HT326 - HT327

CAT IV DIGITAL PROFESSIONAL MULTIMETER

HT320 digital multimeter series provides all the essential features in compact and easy-to-use instruments developed for every-day use. Rugged design and accurate measurements make HT320 digital multimeter series the ideal choice for electricians, HVAC technicians, etc. both for maintenance and troubleshooting.

FUNCTIONS	HT321	HT322	HT326	HT327
TRMS measurements				•
AC Voltage	•	•	•	•
DC Voltage	•	•	•	•
AC Current			•	•
DC Current			•	•
Resistance	•	•	•	•
Continuity test	•	•	•	•
Frequency			•	•
Capacitance			•	•
Duty Cycle			•	•
Diode test	•	•	•	•
Data HOLD	•	•	•	•
Temp. with type K probe		•		
MAX/MIN	•(Max)	•(Max)		•
PEAK				•
Relative measurements			•	•
Manual range	•	•	•	•
Backlight		•	•	•
Bargraph				•
AutoPowerOff	•	•	•	•

GENERAL SPECIFICATIONS

Display:	LCD, 3½ dgt, 1999 points (HT321-HT322) LCD, 3¾ dgt, 3999 points (HT326) LCD, 4 dgt, 3999 points (HT327)
Power supply:	2x1.5V bat. type AA LR6 (HT321-HT322-HT326), 1x9V bat. type IEC6F22 (HT327)
Battery life:	approx 220 hours
Safety:	IEC/EN61010-1
Category of measurement	CAT IV 600V – CAT III 1000V
Pollution degree:	2
Insulation:	double insulation
Max height of use:	2000m
Dimensions (LxWxH):	163x88x48mm
Weight (batteries incl.):	280g, 400g (HT327)

TECHNICAL SPECIFICATIONS	HT321	HT322	HT326	HT327
DC Voltage				
Measurement range:	0.2mV ÷ 600V	0.2mV ÷ 600V	0.2mV ÷ 600V	0.1mV ÷ 1000V
Basic accuracy:	±(0.8%rdg + 1dgt)	±(0.8%rdg + 1dgt)	±(0.8%rdg + 2dgt)	±(0.5%rdg + 2dgt)
AC Voltage				
Measurement range:	0.2mV ÷ 600V	0.2mV ÷ 600V	0.1mV ÷ 600V	0.1mV ÷ 750V
Basic accuracy:	±(1.5%rdg + 3dgt)	±(1.5%rdg + 3dgt)	±(1.0%rdg + 3dgt)	±(1.0%rdg + 3dgt)
DC Current				
Measurement range:			0.01A ÷ 10A	0.1µA ÷ 10A
Basic accuracy:			±(1.2%rdg + 3dgt)	±(1.2%rdg + 3dgt)
AC Current				
Measurement range:			0.01A ÷ 10A	0.1µA ÷ 10A
Basic accuracy:			±(2.0%rdg + 5dgt)	±(1.2%rdg + 5dgt)
Resistance and continuity test				
Measurement range:	0.1Ω ÷ 20MΩ	0.1Ω ÷ 20MΩ	0.1Ω ÷ 40MΩ	0.1Ω ÷ 40MΩ
Basic accuracy:	±(1.0%rdg + 3dgt)	±(1.0%rdg + 3dgt)	±(1.0%rdg + 2dgt)	±(0.8%rdg + 2dgt)
Buzzer:	<120Ω	<120Ω	<140Ω	<35Ω
Frequency				
Measurement range:			0.01Hz÷99.99kHz	1Hz÷40.00kHz
Basic accuracy:			±(1.5%rdg + 5dgt)	±(0.1%rdg + 2dgt)
Capacitance				
Measurement range:			0.001nF ÷ 100µF	0.001nF ÷ 100mF
Basic accuracy:			±(3.0%rdg + 5dgt)	±(2.0%rdg + 8dgt)
Duty Cycle				
Measurement range:			20% ÷ 80%	
Basic accuracy:			±(1.0%rdg + 5dgt)	
Temperat. with type K probe				
Measurement range:			-40°C ÷ 800°C	
Basic accuracy:			±(2.0%rdg + 3dgt)	

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ACCESSORIES	Code
Standard	
Couple of test leads	4413-2
Carrying bag	B80
Batteries	
User manual	
Optional	
Adapter for type K probes (only HT322)	T10
Type K probes (only HT322)	



HT321
HR000321



HT322
HR000322



HT327
HR000327



HT326
HR000326



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HT326

Rel. 1.01 of 22/10/07

CAT IV digital multimeter with capacitance and duty cycle

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1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as \pm (%rdg + numbers of digits) at 23°C \pm 5°C, <75%HR

DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
400.0mV	0.1mV	$\pm(0.8\%rdg+3dgt)$	600VDC/ACrms
4.000V	0.001V	$\pm(0.8\%rdg+2dgt)$	
40.00V	0.01V		
400.0V	0.1V		
600V	1V	$\pm(1.0\%rdg+2dgt)$	

Input impedance: 10M Ω

AC VOLTAGE

Range	Resolution	Accuracy (45 ÷ 400Hz)	Overload protection
400.0mV	0.1mV	Not specified	600VDC/ACrms
4.000V	0.001V	$\pm(1.0\%rdg+3dgt)$	
40.00V	0.01V		
400.0V	0.1V		
600V	1V	$\pm(1.2\%rdg+3dgt)$	

Input impedance: 10M Ω

DC CURRENTS

Range	Resolution	Accuracy (*)	Voltage drop	Overload protection
10A	0.01A	$\pm(1.2\%rdg+3dgt)$	200mV	Fuse 10A/600V

(*) Accuracy declared for current up to 6A in continuous mode, up to 7A for measures up to 3min, other for measures up to 2min

AC CURRENTS

Range	Resolution	Accuracy (*)	Voltage drop	Overload protection
10A	0.01A	$\pm(2.0\%rdg+5dgt)$	200mV	Fuse 10A/600V

(*) Accuracy declared for current up to 6A in continuous mode, up to 7A for measures up to 3min, other for measures up to 2min

RESISTANCE

Range	Resolution	Accuracy	Open voltage	Overload protection
400.0 Ω	0.1 Ω	$\pm(1.0\%rdg+8dgt)$	about 0.4V	600VDC/ACrms (< 30sec)
4.000k Ω	0.001k Ω	$\pm(1.0\%rdg+2dgt)$		
40.00k Ω	0.01k Ω			
400.0k Ω	0.1k Ω			
4.000M Ω	0.001M Ω			
40.00M Ω	0.01M Ω	$\pm(2.0\%rdg+2dgt)$		

DIODE TEST

Range	Direct voltage	Accuracy	Open voltage	Overload protection
	0 – 1.000V	$\pm(0.5\%rdg+3dgt)$	about 1.5VDC	600VACrms (< 30sec)



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TEST CONTINUITY

Range	Buzzer	Open voltage	Overload protection
·))	R<120Ω	about 0.5VDC	600VACrms (< 30sec)

FREQUENCY

Range	Resolution	Accuracy	Overload protection
99.99Hz	0.01Hz	±(1.5%rdg+5dgt)	600VDC/ACACrms (< 30sec)
999.9Hz	0.1Hz		
9.999kHz	1Hz		
99.99kHz	10Hz		

DUTY CYCLE

Range	Resolution	Accuracy	Overload protection
20 – 80%	0.1%	±(1.0%rdg+5dgt)	600VACrms (< 30sec)

Limit voltages for Frequency and Duty cycle measurements

Operating voltage	Frequency
$V_{MIN} \geq 1.5V_{p-p}$ $V_{MAX} \leq 400V_{rms}$	0 – 400Hz
$V_{MIN} \geq 1.5V_{p-p}$ $V_{MAX} \leq 10V_{p-p}$	400 – 900Hz
$V_{MIN} \geq 3.0V_{p-p}$ $V_{MAX} \leq 10V_{p-p}$	900Hz – 100kHz

CAPACITANCE

Range	Resolution	Accuracy	Overload protection
5nF	0.001nF	±(5.0%rdg+25dgt)	600VACrms (< 30sec)
50nF	0.01nF	±(3.0%rdg+5dgt)	
500nF	0.1nF		
5μF	0.001μF		
50μF	0.01μF		
100μF	0.1μF(30s)	±(5.0%lrdg+10dgt)	



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2. GENERAL SPECIFICATIONS


Display:

- LCD display, 3 $\frac{3}{4}$ digit with maximum reading 3999 counts with sign and decimal point
- Automatic polarity indication
- Backlight
- "OL" over range indication

Features:

- HOLD
- RANGE for manual selection
- REL for relative measurements
- Auto Power OFF after 15 minutes of don't work

Low battery indication:

- The symbol "  " appears when the battery voltage is low

Operating temperature:

- -5 °C to 40 °C, <80%HR

Storage temperature:

- -10 °C to 60 °C, <70%HR

General informations:

- Altitude max: 2000m
- Pollution degree: 2
- Insulation: double insulation

Power supply:

- 2 x 1.5V alkaline batteries type AAA MN2400 LR03 AM4

Sizes:

- 163(L)x88(W)x48(H) mm

Weight (included batteries):

- 280g

Applied standards:

- LVD: EN 61010-1 CAT IV 600V – CAT III 1000V
- EMC: EN60326

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

