

# HT321 - HT322

## 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		
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)
Power supply:	2x1.5V bat. type AA LR6 (HT321-HT322-)
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,

TECHNICAL SPECIFICATIONS	HT321	HT322		
<b>DC Voltage</b>				
Measurement range:	0.2mV ÷ 600V	0.2mV ÷ 600V		
Basic accuracy:	±(0.8%rdg + 1dgt)	±(0.8%rdg + 1dgt)		
<b>AC Voltage</b>				
Measurement range:	0.2mV ÷ 600V	0.2mV ÷ 600V		
Basic accuracy:	±(1.5%rdg + 3dgt)	±(1.5%rdg + 3dgt)		
<b>DC Current</b>				
Measurement range:				
Basic accuracy:				
<b>AC Current</b>				
Measurement range:				
Basic accuracy:				
<b>Resistance and continuity test</b>				
Measurement range:	0.1Ω ÷ 20MΩ	0.1Ω ÷ 20MΩ		
Basic accuracy:	±(1.0%rdg + 3dgt)	±(1.0%rdg + 3dgt)		
Buzzer:	<120Ω	<120Ω		
<b>Frequency</b>				
Measurement range:				
Basic accuracy:				
<b>Capacitance</b>				
Measurement range:				
Basic accuracy:				
<b>Duty Cycle</b>				
Measurement range:				
Basic accuracy:				
<b>Temperat. with type K probe</b>				
Measurement range:		-40°C ÷ 800°C		
Basic accuracy:		±(2.0%rdg + 3dgt)		

### ACCESSORIES

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



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# HT321

Rel. 1.01 of 22/10/07

## CAT IV digital multimeter

Pag 1 of 2

### 1. ELECTRICAL SPECIFICATIONS

Accuracy is indicated as  $\pm$  (%rdg + numbers of digits) at  $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ , <75%HR

#### DC VOLTAGE

Range	Resolution	Accuracy	Overload protection
200.0mV	0.1mV	$\pm(0.8\%rdg+1dgt)$	600VDC/ACrms
2.000V	0.001V		
20.00V	0.01V		
200.0V	0.1V		
600V	1V	$\pm(1.0\%rdg+2dgt)$	

Input impedance:  $10\text{M}\Omega$ 

#### AC VOLTAGE

Range	Resolution	Accuracy (45 ÷ 400Hz)	Overload protection
200.0mV	0.1mV	Not specified	600VDC/ACrms
2.000V	0.001V	$\pm(1.5\%rdg+3dpts)$	
20.00V	0.01V		
200.0V	0.1V		
600V	1V		

Input impedance:  $10\text{M}\Omega$ 

#### RESISTANCE

Range	Resolution	Accuracy	Open voltage	Overload protection
200.0 $\Omega$	0.1 $\Omega$	$\pm(1.0\%rdg+8dpts)$	about 3.0V	600VDC/Acrms (< 30sec)
2.000k $\Omega$	0.001k $\Omega$	$\pm(1.0\%rdg+3dpts)$		
20.00k $\Omega$	0.01k $\Omega$			
200.0k $\Omega$	0.1k $\Omega$			
2.000M $\Omega$	0.001M $\Omega$			
20.00M $\Omega$	0.01M $\Omega$	$\pm(3.0\%rdg+3dpts)$		

#### DIODE TEST

Range	Resolution	Open voltage	Overload protection
	1mV	circa 1.5VDC	600VACrms (< 30sec)

Overload protection: 600Vrms

#### TEST CONTINUITY

Range	Buzzer	Open voltage	Overload protection
	R<120 $\Omega$	about 1.5VDC	600VACrms (< 30sec)



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## 2. GENERAL SPECIFICATIONS

### Display:

- LCD display, 3 ½ digit with maximum reading 1999 counts with sign and decimal point
- Automatic polarity indication.
- "OL" over range indication

### Features:

- MAX
- HOLD
- RANGE for manual selection
- 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