

CAT IV and 6000 counts TRMS multimeter with logger

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The new series of HT professional multimeters is the result of an important research conducted at the most demanding users of this kind of equipment, namely laboratories where the choice of a measuring instrument is subject to strict tests concerning **precision**, **reliability** and **safety of measurements even in extreme conditions**. Therefore, a complete range multimeters, all able to measure in **TRMS**, all within **CAT IV 600V**, autorange function available on all models, with backlight display. The design is extremely modern and attractive, but also ergonomic, to ensure maximum ease of use. Display with high resolution, even in color version, for the premium model HT64. In the summary table you can find all the features that make this innovative set of professional instruments unique and valuable

1. ELECTRICAL SPECIFICATIONS

Accuracy calculated as ±[%reading + (num dgt * resolution)] ta 18°C ÷ 28°C, <75%HR

DC VOLTAGE							
Range	Resolution	Accuracy	Input impedance	Overload protection			
600.0m∨	0.1m∨						
6.000∨	0.001V	±(0.1%rdg+5dgt)					
60.00∨	0.01V		10MΩ	1000VDC/ACrms			
600.0∨	0.1	1/0 20/rda Edat)					
1000∨	1V	±(0.2%rdg+5dgt)					

AC TRMS VOLTAGE							
Range	Resolution	Accuracy (*) 50Hz ÷ 60Hz	Accuracy (*) 61Hz ÷ 1kHz	Overload protection			
600.0mV	0.1m∨						
6.000∨	0.001V						
60.00∨	0.01\/	\pm (0.9%rdg+5dgt)	±(3.0%rdg+5dgt)	1000VDC/ACrms			
600.0∨	0.1V						
1000∨	1V						

^(*) Accuracy specified from 5% to 100% of measurement range, Input impedance: $>9M\Omega$, Response time PEAK function: >1ms, Accuracy PEAK function: ± 10 %rdg

AC+DC TRMS VOLTAGE					
Range	Resolution	Accuracy (*) 50Hz ÷ 1kHz	Input impedance	Overload protection	
6.000∨	0.001V				
60.00∨	0.01V	1/2 00/rda 120dat)	>9MO	1000VDC/ACrms	
600.0∨	0.1V	±(3.0%rdg+20dgt)	~9IVIL2	1000 VDC/ACIIIIS	
1000∨	1V				

DC CURRE	NT		
Range	Resolution	Accuracy	Overload protection
600.0μΑ	0.1μΑ		
6000μΑ	1μΑ	\pm (0.9%rdg+5dgt)	Fast Fuse 0.8A/1kVAC/DC (inputs mA, μA)
60.00mA	0.01mA		Fast Fase 0.0Α/ ΙΚΛΑΟ/DC (Illputs IIIA, μΑ)
600.0mA	0.1mA	±(0.9%rdg+8dgt)	
10.00A	0.01A	±(1.5%rdg+8dgt)	Fast Fuse 10A/1kVAC/DC (input 10A)

AC, AC+DC	AC, AC+DC TRMS CURRENT					
Range	Resolution	Accuracy (*) 50Hz ÷ 1kHz	Overload protection			
600.0μΑ	0.1μΑ					
6000μΑ	1μΑ	±(1.2%rdg+5dgt)	Fast Fuse 0.8A/1kVAC/DC (inputs mA, μA)			
60.00mA	0.01mA	±(1.2%1ag+3agt)	Fast Fuse 0.6Α/ IKVAC/DC (Illputs IIIA, μΑ)			
600.0mA	0.1mA					
10.00A	0.01A	±(1.5%rdg+5dgt)	Fast Fuse 10A/1kVAC/DC (input 10A)			

^(*)Accuracy specified from 5% to 100% of measurement range Response time PEAK function: >1ms, Accuracy PEAK function: ±10%rdg AC+DC TRMS Current: accuracy (50Hz+1kHz): ±(3.0%rdg + 20dgt)

4-20mA% RE	4-20mA% READINGS					
Range	Resolution	Accuracy	Reading			
-25% ÷ 125%	0.1%	±50dat	0mA=-25%, 4mA=0%, 20mA=100%,			
-2070 ÷ 12070	0.170		24mA=125%			

DIODE TES	T .		
Range	Max test current	Open voltage	Overload protection
→	<1.5mA	3.2∨	1000VDC/ACrms

RESISTANCE AND CONTINUITY TEST							
Range	Resolution	Accuracy	Buzzer	Overload protection			
00.0Ω	0.1Ω	±(0.8%rdg+10dgt)					
6.000kΩ	0.001kΩ						
60.00kΩ	0.01kΩ	1/0 00/ rd a 1 Ed at)	4500	40001/00/40			
600.0kΩ	0.1kΩ	±(0.8%rdg+5dgt)	<50Ω	1000VDC/ACrms			
$6.000 M\Omega$	0.001MΩ						
60.00MΩ	0.01ΜΩ	±(2.5%rda+10dat)					

FREQUENC	FREQUENCY (Electronic circuits)							
Range	Resolution	Accuracy	Sensitivity	Overload protection				
60.00Hz	0.01Hz		2∀rms min					
600.0Hz	0.1Hz		(20% < duty < 80%,					
6.000kHz	0.001kHz	±(0.000/rda±5dat)	<100kHz)	1000VDC/ACrms				
60.00kHz	0.01kHz	±(0.09%rdg+5dgt)	5∨rms min	1000 V DC/ACIIIIS				
600.0kHz	0.1kHz		(20% < duty < 80%,					
1.000MHz	0.001MHz		>100kHz)					

FREQUENCY (Electrical circuits)					
Range	Resolution	Accuracy	Sensitivity	Overload protection	
40Hz ÷ 10kHz	0.01Hz÷0.001kHz	±(0.5%rdg)	2∨rms	1000VDC/ACrms	

DUTY CYC	LE		
Range	Resolution	Accuracy	Overload protection
0.1 ÷ 99.9%	0.01%	±(1.2%rdg+2dgt)	1000VDC/ACrms

Pulse frequency range: 40Hz ÷ 10kHz, Pulse width: ±5V (100µs ÷ 100ms)

CAPACITAN	CE		
Range	Resolution	Accuracy	Overload protection
60.00nF	0.01nF	±(1.5%rdg+20dgt)	
600.0nF	0.1nF	±(1.2%rdg+8dgt)	
6.000μF	0.001μF	±(1.5%rdg+8dgt)	1000VDC/ACrms
60.00μF	0.01μF	±(1.2%rdg+8dgt)	1000 V DC/ACIMS
600.0μF	0.1μF	±(1.5%rdg+8dgt)	
6.000mF	0.001mF	±(2.5%rdg+20dgt)	

TEMPERATURE WITH TYPE K PROBEK			
Range	Resolution	Accuracy (*)	Overload protection
-40.0°C ÷ 600.0°C	0.1°C	±(1.5%rdg+3°C)	- 1000VDC/ACrms
600°C ÷ 1350°C	1°C		
-40.0°F ÷ 600.0°F	0.1°F	±(1.5%rdg+5.4°F)	
600°F ÷ 2462°F	1°F		

(*)Accuracy referred to instrument without probe

2. GENERAL SPECIFICATIONS

Display:

- TFT LCD, colours, 4½ dgt, 6000 counts, decimal point and bargraph
- Automatic polarity indication
- Backlight
- "OL" over range indication
- Response time: 3/s

Features:

- Data HOLD
- MAX/MIN/AVG
- PEAK (Voltage and Current); AC+DC feature
- · Data Logger and Graph of measured parameters
- Internal memory for measurements, graphs and recordings
- · Icons internal menu
- REL
- DC 4-20mA% current readings
- Auto Power OFF programmable up to 60min of idleness

Low battery indication:

• The symbol "☐"appears when the battery voltage is low

Environmental conditions:

- Operating Temperature/Humidity: 5°C ÷ 40°C, <80%HR
- Storage Temperature/Humidity: -20°C ÷ 60°C, <50%HR (@40°C)

General information:

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

Power supply:

- 1 x 7.2V Li-ION rechargeable battery
- Adapter battery charger: 100/240VAC, 50/60Hz, 10VDC, 1A

Dimensions (L x W x H)

175 x 85 x 55mm

Weight (included batteries)

390g

Reference guidelines:

- Safety: IEC/EN61010-1EMC: IEC/EN61326-1
- Measurement category: CAT IV 600V CAT III 1000V

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

This product conforms to the prescriptions of the European directive 2011/65/EU (RoHS) and the European directive 2012/19/EU (WEEE)