



DataSheet
M32
TRMS AUTORANGE
MULTIMETER



Technical parameters

Operating environment:	600V CAT IV and 1000V CAT. III	
Pollution level:	2	
Altitude	< 2000 m	
Working temperature & humidity:	0~40°C (The requirements will not be considered when temperature is less than 10°C and relative humidity is below 80%).	
Storage temperature & humidity:	-10~60°C (batteries shall be removed when RH is below 70%)	
Coefficient of temperature:	0.1×accuracy/ OC (<18 °C or >28°C). Allowable max voltage between terminal to be measured and ground: 1000V DC or 750V AC (valid value)	
Protection of protective tube: mA position:	protective tube FF 600mA/1000V; A position protective tube FF 10A/1000V	
Rotation rate:	approximately 3 revolutions/second	
Display unit:	6000 counts displayed on LCD screen. Automatically display the symbol for unit in accordance with measurement function position.	
Outrange indication:	the LCD screen will display "OL".	
Battery Low indication:	"" will appear when the battery's voltage is below the normal working voltage.	
Input polarity indication:	"-" will automatically appear.	
Power:	4 x 1.5V AA battery	
Dimensions:	190mm(L)×89mm(W)×50mm(H).	
Weight:	approximately 380g (inclusive of batteries)	

Precision indicator

Accuracy: ±(% reading + digit) The accuracy warranty will run for 1 year upon the ex-factory date. Reference conditions: ambient temperature is between 18°C and 28°C and relative humidity is no more than 80%.

DC voltage

Measuring range	Resolution	Accuracy
600mV	0.1mV	
6V	1mV	1(0.50/ Parding 2 digita)
60V	10mV	$\pm (0.5\% \text{ Reading} + 3 \text{ digits})$
600V	100mV	
1000V	1V	$\pm (0.5\% \text{ Reading} + 3 \text{ digits})$

Input impedance:10MΩ

Maximal input voltage: 1000Vdc or 750Vac valid value



AC voltage

Measuring range	Resolution	Accuracy
6V	1mV	± (0.8% readings +3 digits)
60V	10mV	± (0.6% leadings +3 digits)
600V	100mV	+ (10/ mondings +10 digits)
750V	1V	± (1% readings +10 digits)

Input impedance: $10M\Omega$

Maximal input voltage: 1000Vdc or 750Vac valid value

Frequency response: 40Hz-1kHz True RMS

Frequency

Measuring range	Resolution	Accuracy
9.999Hz	0.001Hz	
99.99Hz	0.01Hz	
999.9Hz	0.1Hz	
9.999KHz	0.001 KHz	± (1% Reading + 3 digits)
99.99KHz	0.01 KHz	
999.9KHz	0.1 KHz	
9.999MHz	0.001MHz	

Input voltage range: 200mV-10V ac valid value

Overload protection: 600V DC/AC

Resistance

Measuring range	Resolution	Accuracy
600Ω	0.1Ω	
6kΩ	1Ω	(0.00/ Parting 2.45-4-1)
60kΩ	10Ω	$\pm (0.8\% \text{ Reading} + 3 \text{ digits})$
600kΩ	100Ω	
6ΜΩ	1kΩ	
60ΜΩ	10kΩ	$\pm (1.2\% \text{ Reading} + 30 \text{ digits})$

Overload protection: 600V DC/AC

Open-circuit voltage: 1V

Diode

Functions	Measuring range	Resolution	Testing conditions
Diode test →	0-3V	0.001V	Forward DC current: approximately 1mA; Open-circuit voltage: approximately 3.2V. The display unit shows the approximate value of the diode's forward voltage drop.

Overload protection: 600V DC/AC



Continuity

Functions	Measuring range	Resolution	Description	Testing conditions
			When the built-in beeper sounds	
			and the accompanying green	Open-circuit voltage:
	600Ω	0.1Ω	indicator is on, the measured	approximately 1V
01))	00052	0.122	resistance shall not be over $30.\Omega$	
			The red indicator will be on when	
			the resistance is 40Ω - 60Ω .	

Overload protection: 600V DC/AC

Capacitor

Measuring range	Resolution	Accuracy
6nF	0.001nF	\pm (4.0% Reading +30 digits)
60nF	0.01nF	
600nF	0.1nF	
6μF	1nF	+ (4.00/ P 1' +2.1' '4)
60μF	10nF	\pm (4.0% Reading +3 digits)
600μF	100nF	
6mF	1uF	
100mF	0.01mF	\pm (5.0% Reading + 3 digits)

Overload protection: 600V DC/AC

DC current

Measuring range	Resolution	Accuracy
60μΑ	0.01μΑ	
600μΑ	0.1μΑ	
6mA	0.001mA	$\pm (0.8\% \text{ Reading} + 3 \text{ digits})$
60mA	0.01mA	±(0.8% Keading + 3 digits)
600mA	0.1mA	
10.00A	10mA	$\pm (1.2\% \text{ Reading} + 3 \text{ digits})$

Overload protection: protective tube for mA measuring range (FF600mA/1000V); protective tube for 10A measuring range (FF10A/1000V).

Maximal input current: mA position: 600mA DC/AC (valid value);

10A position: 10A DC/AC (valid value)

When the measured current is over 5A, the duration of continuous measurement shall not be over 10 seconds. The current measurement shall be carried out 1 minute after the completion of previous measurement.

AC current

Measuring range	Resolution	Accuracy
60μΑ	0.01μΑ	
600μΑ	0.1μΑ	
6 mA	0.001mA	$\pm (1\% \text{ Reading} + 3 \text{ digits})$
60mA	0.01mA	
600mA	0.1mA	
10A	10mA	$\pm (1.5\% \text{ Reading} + 3 \text{ digits})$

Overload protection: protective tube for mA measuring range (FF600mA/1000V); protective tube for 10A measuring range (FF10A/1000V).



Maximal input voltage: mA position: 600mA DC/AC (valid value);

10A position: 10A DC/AC (valid value)

When the measured current is over 5A, the duration of continuous measurement shall not be over 10 seconds. The current measurement shall be carried out 1 minute after the completion of previous

measurement.

Frequency response: 40Hz-1kHz True RMS

Temperature

Measuring range	Resolution	Accuracy	
°C	1°C	-20°C~ 1000°C	± (1.0%+3) reading
°F	1°F	-4°F~ 1832°F	± (1.0%+3) reading

Overload protection: 600V DC/AC



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