

Tekneka M406 is a professional-grade digital TRMS multimeter engineered for precise electrical measurement and analysis in diverse environments. This high-performance instrument features a 6000-count backlit LCD display and offers a wide range of measurement capabilities, including voltage up to 1000V and current up to 10A. Its robust design includes an automatic terminal blocking system (ABS) to prevent incorrect lead connections, ensuring both user safety and device longevity. Encased in a protective rubber holster with an integrated stand, it provides reliable performance for field service, laboratory research, and industrial maintenance.

Features

- True RMS Measurement:** Provides accurate readings for both sinusoidal and non-sinusoidal waveforms.
- Automatic Blocking Socket (ABS):** Prevents incorrect lead insertion and function selection to enhance safety.
- Non-Contact Voltage (NCV) Detection:** Quickly identifies hazardous live power above 50V without physical contact.
- Temperature Measurement:** Supports K-type thermocouples for readings ranging from -200°C to 1200°C .
- Capacitance & Frequency:** Measures capacitance from 1pF to 60mF and logic frequencies up to 1MHz.
- Data Hold & Relative Measurement:** Allows users to freeze displayed values or perform zero-correction for relative readings.
- Duty Cycle Analysis:** Capable of measuring duty cycle percentages between 2.0% and 98.0%.
- Auto/Manual Ranging:** Offers flexible range selection with an automatic default for most functions.
- Backlit LCD Display:** Features a large 58 mm x 31.4 mm screen for clear visibility in low-light conditions.
- Energy Saving:** Includes an Auto Power Off feature that activates after approximately 15 minutes of inactivity.



Specification

Description	Ranges	Resolution	Basic Accuracy
AC Voltage	6.000V	1mV	$\pm(0.8\% + 5 \text{ dgt})$
	60.00 V	10mV	
	600.0 V	100mV	
	1000 V	1V	
DC Voltage	6.000V	1mV	$\pm(0.5\% + 3 \text{ dgt})$
	60.00 V	10mV	
	600.0 V	100mV	
	1000 V	1V	
mV (AC)	60.00mV	10 μ V	$\pm(3\% + 5 \text{ dgt})$
	600.0mV	100 μ V	$\pm(1.5\% + 5 \text{ dgt})$
mV (DC)	60.00mV	10 μ V	$\pm(1\% + 5 \text{ dgt})$
	600.0mV	100 μ V	$\pm(0.5\% + 5 \text{ dgt})$
AC Current	60.00mA	0.01mA	$\pm(1.5\% + 3 \text{ dgt})$
	600.0mA	0.1mA	
	6.000A	1mA	
	10.00A	10mA	
DC Current	60.00mA	0.01mA	$\pm(1.8\% + 5 \text{ dgt})$
	600.0mA	0.1mA	

Description	Ranges	Resolution	Basic Accuracy
DC Current	6.000A	1mA	$\pm(2\% + 5 \text{ dgt})$
	10.00A	10mA	
Resistance	600.0 Ω	100m Ω	$\pm(0.5\% + 3 \text{ dgt})$
	6.000k Ω	1 Ω	
	60.00k Ω	10 Ω	
	600.0k Ω	100 Ω	
	6.000M Ω	1K Ω	
	60.00M Ω	10K Ω	
	600.0M Ω	100K Ω	
Farad	6.000nF	1nF	$\pm(5\% + 20 \text{ dgt})$
	60.00nF	10nF	
	600.0nF	100nF	$\pm(5\% + 10 \text{ dgt})$
	6.000uF	1uF	
	60.00uF	10uF	
	600.0uF	100uF	
	6.000mF	1mF	
	60.00mF	10mF	-
Diode	3.000V	0.001V	$\pm(2\% + 10 \text{ dgt})$
Buzzer	Acoustic Signal 0..<50		

Description	Ranges	Resolution	Basic Accuracy
Frequency	99.9Hz	0.01	$\pm(0.1\% + 3 \text{ dgt})$
	999.9Hz	0.1	
	9.999kHz	0.001	
	9.999kHz	0.01	
	999.9kHz	0.1	
	Liner Frequency		
	99.99Hz	0.01Hz	$\pm(0.05\% + 8 \text{ dgt})$
	999.9Hz	0.1Hz	
	9.999kHz	0.001kHz	
Duty Cycle	2.098.0%	0.1%	10....1Khz: +/-5D 1Khz....10Khz: +/-5D/Khz
Buzzer	Acoustic Signal 0..<50		
Temperature °C	-200~0°C	1°C	$\pm(5\% + 4 \text{ dgt})$
	0~400°C		$\pm(2\% + 3 \text{ dgt})$
	400~1200°C		$\pm(2\% + 2 \text{ dgt})$

General Specification	
Display (LCD)	4 digit: 6000 counts
Ranging	Auto/ Manual
Sampling Rate	2.8 times/sec
Safety Rating	1000V CAT II/CAT III 600V
Data Hold	✓
NCV	✓
REL	✓
Backlight	✓
Low Battery Indication	✓
Auto Power Off	✓
Built Material	ABS
Protection	IP52/IP20 for terminals
Operating Temperature	0 to 50°C
Power Supply	2 x 1.5V AA battery
Dimension	79 x 174 x 38mm
Weight	Net: 400g/Gross: 600g

Application

Widely used by electrical/electronic industries, production industries, maintenance service providers, construction industries, automobile industries, electronics service industries, smartphone services, oil & gas industries, electrical Inspectors etc.

Package Includes

- Test lead set
- 2 x AA (1.5V) batteries
- Device holster
- Adjustable Strap



Ordering Info.

M406.....Digital TRMS Multimeter