

Bench Digital Multimeter

Features

- TM-8155**
- ✓ Large LCD, 80000 count Dual-display, Analog bar 21 sets.
 - ✓ 50 measuring functions, with basic DCV, ACV, DCA, ACA, Ω , CAP, Hz, TEMP, diode and Continuity measuring function, etc.
 - ✓ 18 types of frequency, frequency up to 8MHz, 1800 waveform outputs, 1%~99% duty cycle
 - ✓ Simultaneous measure (AC+DC), (AC+Hz), (DC+dBm), (dBm+Hz), (Hz+Duty), ($^{\circ}\text{C}+^{\circ}\text{F}$)
 - ✓ Auto data update and refresh, auto data hold, auto peak hold.
 - ✓ 36-hour dynamic record: MAG, MIN, AVG, MAX-MIN (REL Δ), (REL%), setting upper & lower limit, timing measurement
 - ✓ AC measuring adopts highly accurate true RMS measurement, with testing frequency bandwidth and AC+DC measuring, capable of accurate true RMS measuring of any waveforms in AC range
 - ✓ RS-232 interface
- TM-8055**
- ✓ 4 1/2digits, bench type, large LCD of white backlight, easy to read
 - ✓ With basic DCV, ACV, DCA, ACA, Ω , CAP, Hz, hFE, TEMP, Diode and Continuity measuring functions
 - ✓ Voltage test range up to 1000V DC or peak-peak value AC, resolution up to 10uV
 - ✓ Current test range up to 20A, auto polarity shift, data hold
 - ✓ AC measuring adopts high accuracy true RMS, measuring broadband and AC+DC function, enabling accurate measuring of virtual value of AC by any waveform

Product photo



TM-8155



TM-8055

Specifications

Basic function	Range	Accuracy	
		TM-8155	TM-8055
DCV	80mV/800mV/8V/80V/800V/1000V	±(0.05%+5)	
	200mV/2V/20V/200V/1000V		±(0.05%+1)
ACV	80mV/800mV/8V/80V/750V	±(0.8%+50)	
	200mV/2V/20V/200V/750V		±(0.8%+80)
DCA	80mA/800mA/8A/20A	±(0.2%+10)	
	20mA/200mA/2A/20A		±(0.35%+10)
ACA	80mA/800mA/8A/20A	±(0.8%+20)	
	200mA/2A/20A		±(0.8%+80)
Resistance	800Ω/8kΩ/80kΩ/800kΩ/8MΩ/80MΩ	±(0.3%+5)	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ		±(0.1%+5)
Frequency	0.5Hz~8MHz	±(0.03%+2)	
	20kHz/200kHz		±(1.0%+20)
Capacitance	10nF/100nF/1uF/10uF/100uF	±(2.5%+50)	
	20nF/2uF/200uF		±(3.5%+20)
Temperature	-50℃~1372℃ / -58℉~2502℉	±(2.0%+2)	
Square wave output	3V / 0.5Hz~5kHz / 1%~99%	±0.02%	
Feature	TM-8155	TM-8055	
Diode test	√		
hFE test		√	
True RMS	√		
AC+DC measuring	√		
Continuity alarm	√		
Overloading protection	√		
Input Impedance	10MΩ		
Sampling frequency	4times/sec. Analog bar 40 times/sec.	3times/Sec.	
AC frequency response	40Hz-50kHz		
Operation mode	Auto range		Manual range
Max. display	80000		19999
Computer interface	RS-232		
Standard accessories	Test lead, Power cord, User manual, Software CD, Temperature probe		Test lead, Power cord, User manual
Power source	AC110V/220V, 50Hz/60Hz		
Meter size	245×220×98mm		
Net weight	1.5kg		

6000 True RMS Digital Multimeter for frequency conversion TM-287

Features

- ✓ Measure true RMS of nonlinear signal accurately
- ✓ Measure voltage and frequency of motor drive accurately
- ✓ 12 measuring functions, with VSD, diode, hFE, duty cycle, resistance, continuity, etc.
- ✓ Analog display, manual or auto range
- ✓ Strong antimagnetic and anti-jamming performance. Full function protection, with anti high voltage circuit design
- ✓ Large LCD display, white backlight, unit symbol display, very easy to read
- ✓ Relative value, Max./Min. value measuring, data hold



Specifications

Basic function	Range	Accuracy
DCV	600mV/6V/60V/600V/1000V	$\pm(0.5\%+3)$
ACV (TRMS)	6V/60/600/750V	$\pm(1.0\%+10)$
VSD-V (TRMS)	6V/60/600/750V	$\pm(2.0\%+10)$
DCA	600uA/6000uA/60mA/600mA/6A/20A	$\pm(1.0\%+3)$
ACA (TRMS)	600uA/6000uA/60mA/600mA/6A/20A	$\pm(1.2\%+20)$
Resistance	600Ω/6kΩ/60kΩ/600kΩ/6MΩ/30MΩ	$\pm(0.8\%+3)$
Capacitance	40nF/ 400nF/4uF/40uF/400uF/2000uF	$\pm(2.5\%+5)$
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/30MHz	$\pm(0.5\%+4)$
Temperature	-40°C ~ 1000°C	$\pm(0.8\%+4)$
	0°F ~ 1832°F	$\pm(0.8\%+5)$
Special function		
VSD test		✓
True RMS		✓
Diode test		✓
hFE test		✓
Continuity alarm		Approx. <30Ω±10Ω
Low battery indication		Approx. <5V
Data hold		MAX, MIN, HOLD
Auto power off		Approx. 15 minutes
Analog bar		✓
Backlight display		✓
Function protection		✓
Input impedance		10MΩ
Sampling rate		3 times/s
AC frequency response		30Hz~60Hz, or 60Hz~200Hz
Operation method		Manual or auto range
Max. display		6000
LCD size		65×41mm
Battery		9V(6F22)
Power dissipation		Quiescent current approx. 4.6mA
Meter size		185×93×35mm
Standard accessories	Test lead, Battery, User manual, Temperature probe, Crocodile clip	
Net weight	290g (including battery)	

Comparison chart

	87V	TM-287
		
DCV	Max. 1000V	Max. 1000V
ACV	Max. 1000V	Max. 750V
DCA	Max. 10A (20A, 30 seconds, Max.)	Max. 20A
ACA	Max. 10A (20A, 30 seconds, Max.)	Max. 20A
Resistance	Max. 50MΩ	Max. 30MΩ
Capacitance	Max. 9999uF	Max. 2000uF
Frequency	Max. 200kHz	Max. 30MHz
Temperature	C/F -200°C ~ 1090°C	C/F 0°C ~ 1000°C
Variable frequency	√	√
TRMS	√	√
Dido	√	√
hFE	----	√
Continuity	√	√
Duty cycle	√	√
Anglo bar	√	√
Operation method	Auto or manual range	Auto or manual range
Data hold		
Auto power off	√	√
Backlight	√	√
Function protection	√	√
Max. display	6000/20000	6000
Relative value	√	√
Max. /Min.	√	√
Standard accessory	Test leads, Battery, User manual, Temperature probe, Crocodile clip	Test leads, Battery, User manual, Certification, Bag, Temperature probe, Crocodile clip

3 1/2 Digit Manual Range Digital Multimeter TM180 Series

Features

- ✓ New type holster, streamline design
- ✓ Large LCD makes reading easy and clear
- ✓ Strong anti-magnetic and anti-jamming performance
- ✓ Auto off within 30 minutes
- ✓ Full protection function, anti high voltage circuit design (voltage dependent resistor 1300V)
- ✓ Unit and function symbols display
- ✓ Capacitance test range: TM181&TM184 up to 2000uF



Specifications

Basic function	Range	Accuracy		
		TM-181	TM-182	TM-184
DCV	200mV/2V/20V/200V/1000V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
ACV	2V/20V/200V/750V	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$
DCA	20uA/200uA/2mA/20mA/200mA/2A/20A	$\pm(0.8\%+3)$		
	200uA/2mA/20mA/200mA/20A		$\pm(0.8\%+3)$	
	20mA/200mA/20A			$\pm(0.8\%+3)$
ACA	20mA/200mA/2A/20A	$\pm(1.0\%+5)$		
	20mA/200mA/20A		$\pm(1.0\%+5)$	$\pm(1.0\%+5)$
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/200MΩ	$\pm(0.8\%+3)$		$\pm(0.8\%+3)$
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/200MΩ		$\pm(0.8\%+3)$	
Capacitance	2uF/2000uF	$\pm(2.0\%+20)$		
	20nF/200nF/2uF/200uF		$\pm(2.0\%+20)$	
	20nF/200nF/20uF/2000uF			$\pm(2.0\%+20)$
Frequency	2kHz/200kHz			$\pm(3.0\%+15)$
Temperature	-40°C~1000°C			$\pm(0.8\%+4)$
Special function				
Diode test	√			
hFE test	√			
Continuity alarm	<30Ω±10Ω			
Low batter indication	<7.5V			
Data hold	√			
Auto off	Power off in 30 minutes if there is no operation			
Backlight	Approx.10Sec.			
Function protection	√			
Anti-shock protection	√			
Input impedance	10MΩ			
Sampling rage	3 times/Sec.			
AC frequency response	40-400Hz			
Operation mode	Manual range			
Max. display	1999			
LCD size	65×41mm			
Power source	9V (6F22)			
Power dissipation	Quiescent current: approx.3mA			
Meter size	185×93×35mm			
Standard accessory	Test lead, Battery, User manual, Temperature probe (TM-184)			
Net weight	290g (including battery)			

3 1/2 Digit Manual Range Digital Multimeter TM180 Series

Features

- ✓ New type holster, streamline design
- ✓ Large LCD makes reading easy and clear
- ✓ Strong anti-magnetic and anti-jamming performance
- ✓ Auto off within 30 minutes
- ✓ Full protection function, anti high voltage circuit design (voltage dependent resistor 1300V)
- ✓ Unit and function symbols display
- ✓ Capacitance test range up to 2000uF
- ✓ Peak value hold (TM-188), frequency test range up to 10MHz (TM-188), frequency auto ranging, self-discharge when capacitance measuring (TM-185)



Specifications

Basic function	Range	Accuracy	
		TM-185	TM-188
DCV	200mV/2V/20V/200V/1000V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$
ACV	200mV/2V/20V/200V/750V	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$
DCA	200uA/2mA/20mA/200mA/20A	$\pm(0.8\%+3)$	
	2mA/20mA/200mA/20A		$\pm(0.8\%+3)$
ACA	200uA/2mA/20mA/200mA/20A	$\pm(1.0\%+5)$	
	2mA/20mA/200mA/20A		$\pm(1.0\%+5)$
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	$\pm(0.8\%+3)$	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ/2000MΩ		$\pm(0.8\%+3)$
Inductance	2mH/20mH/200mH/2H/20H	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$
Capacitance	20nF/200nF/2uF/20uF/2000uF	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$
Frequency	200kHz	$\pm(3.0\%+15)$	
	2kHz/20kHz/200kHz/2000kHz/10MHz		$\pm(0.5\%+4)$
Temperature	-40°C ~ 1000°C	$\pm(0.8\%+4)$	$\pm(0.8\%+4)$
Special function	TM-185	TM-188	
Diode test		✓	
hFE test		✓	
Continuity alarm		<30Ω±10Ω	
Low battery indication		<7.5V	
Data hold	✓	Peak value hold	
Auto off		Approx.30 minutes	
Function protection		✓	
Anti-shock protection		✓	
Input impedance		10MΩ	
Sampling rage		3 times/Sec.	
AC frequency response		40-400Hz	
Operation mode		Manual range (Frequency: auto range)	
Max. display		1999	
LCD size		65×41mm	
Power		9V(6F22)	
Power dissipation		Quiescent current: approx.6mA	
Meter size		185×93×35mm	
Net weight		290g(including battery)	

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4 1/2 Digit Manual Range Digital Multimeter TM180 Series

Features

- ✓ New type holster, streamline design
- ✓ Large LCD display, unit and function symbols display, easy and clear reading
- ✓ Strong anti-magnetic and anti-jamming performance
- ✓ Auto off within 30 minutes
- ✓ Full protection function, anti high voltage circuit design (voltage dependent resistor 1300V)
- ✓ Unit and function symbols display
- ✓ Capacitance test range up to 200uF



Specifications

Basic function	Range	Accuracy	
		TM-186	TM-187
DCV	200mV/2V/20V/200V/1000V	$\pm(0.5\%+3)$	$\pm(0.1\%+5)$
ACV	2V/20V/200V/750V	$\pm(0.8\%+25)$	$\pm(0.5\%+25)$
DCA	200uA/2mA/20mA/200mA/20A	$\pm(0.5\%+4)$	$\pm(0.5\%+4)$
ACA	200mA/20A	$\pm(1.5\%+25)$	$\pm(1.5\%+25)$
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/200MΩ	$\pm(0.2\%+5)$	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ		$\pm(0.4\%+5)$
Conductance	0.1~100ns		$\pm(1.0\%+5)$
Capacitance	2nF/20nF/200nF/2uF/200uF	$\pm(3.5\%+10)$	
	20nF/2uF/200uF		$\pm(3.5\%+10)$
Frequency	200kHz	$\pm(3.0\%+15)$	
	2kHz/200kHz		$\pm(3.0\%+15)$
Special function			
Diode test		✓	
hFE test		✓	
Continuity alarm		$<30\Omega\pm10\Omega$	
Low batter indication		$<7.5V$	
Data hold		✓	
Auto off		30 minutes	
Backlight		Approx.10Sec.	
Function protection		✓	
Anti-shock protection		✓	
Input impedance		10MΩ	
Sampling rage		3 times/Sec.	
AC frequency response		40~400Hz	
Operation mode		Manual range	
Max. display		19999	
LCD size		65×41mm	
Power		9V(6F22)	
Power dissipation		Quiescent current: approx.3mA	
Standard accessory		Test lead, Battery, User manual	
Meter size		185×93×35mm	
Net weight		290g (including battery)	

3 1/2 Digi Manual Range Digital Multimeter TM190 Series

Features

- ✓ New type holster, streamline design
- ✓ Large LCD makes reading easy and clear
- ✓ Strong anti-magnetic and anti-jamming performance
- ✓ Auto off within 30 minutes
- ✓ Full protection function, anti high voltage circuit design
- ✓ Unit and function symbols display
- ✓ Capacitance test range up to 200uF



Specifications

Basic function	Range	Accuracy		
		TM-191	TM-192	TM-193
DCV	200mV/2V/20V/200V/1000V	$\pm(0.5\%+3)$	$\pm(0.5\%+3)$	
	2V/20V/200V/1000V			$\pm(0.5\%+3)$
ACV	2V/20V/200V/750V		$\pm(0.8\%+5)$	
	20V/200V/750V	$\pm(0.8\%+5)$		
	200V/750V			$\pm(1.0\%+5)$
DCA	20mA/200mA/10A	$\pm(0.8\%+5)$	$\pm(0.8\%+5)$	
	200mA/20A			$\pm(0.8\%+5)$
ACA	20mA/200mA/10A	$\pm(1.5\%+5)$	$\pm(1.5\%+5)$	
	200mA/20A			$\pm(1.5\%+5)$
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ/20MΩ	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$	
	200Ω/2kΩ/20kΩ/200kΩ/2MΩ			$\pm(0.8\%+3)$
Capacitance	20nF/2uF/200uF	$\pm(3.0\%+10)$	$\pm(3.0\%+10)$	
	200uF			$\pm(3.0\%+10)$
Rotate speed	3CYL/4CYL/5CYL/6CYL/8CYL			$\pm(3.0\%+5)$
Temperature	-40°C~1000°C	$\pm(0.8\%+4)$		$\pm(0.8\%+4)$
Special function				
Diode test		√		
Continuity alarm		$<30\Omega\pm10\Omega$		
Low battery indication		$<7.5V$		
Data hold		√		
Auto off		Approx.30 minutes		
Function protection		√		
Anti-shock protection		√		
Input impedance		10MΩ		
Sampling rate		3 times/Sec.		
AC frequency response		40-400Hz		
Operation mode		Manual range		
Max. display		1999		
LCD size		57×37mm		
Power source		9V (6F22)		
Power dissipation		Quiescent current: approx.3mA		
Meter size		155×90×48mm		
Standard accessory		Test lead, Battery, User manual, Temperature probe		
Net weight		290g (including battery)		

Manual Range Digital Multimeter TM190 Series

Features

- ✓ New type holster, streamline design
- ✓ Large LCD makes, Unit and function symbols display, easy and clear reading
- ✓ Strong anti-magnetic and anti-jamming performance
- ✓ Auto off within 30 minutes
- ✓ Full protection function
- ✓ Capacitance test range up to 2000uF (TM-199)
- ✓ Relative value, frequency/duty cycle measuring, data hold



Specifications

Basic function	Range	Accuracy	
		TM-197	TM-199
DCV	400mV/4V/40V/200V/1000V 600mV/6V/60V/600V/1000V	$\pm(0.5\%+4)$	$\pm(0.5\%+3)$
ACV	4V/40V/400V/750V 6V/60V/600V/750V	$\pm(0.8\%+6)$	$\pm(0.8\%+5)$
DCA	400uA/4000uA/40mA/400mA/20A 600uA/6000uA/60mA/600mA/6A/20A	$\pm(1.0\%+5)$	$\pm(1.0\%+3)$
ACA	400uA/4000uA/40mA/400mA/20A 600uA/6000uA/60mA/600mA/6A/20A	$\pm(1.5\%+5)$	$\pm(1.2\%+5)$
Resistance	400Ω/4kΩ/40kΩ/400kΩ/4MΩ/40MΩ 600Ω/6kΩ/60kΩ/600kΩ/6MΩ/60MΩ	$\pm(0.8\%+1)$	$\pm(0.8\%+3)$
Capacitance	4nF/40nF/400nF/4uF/40uF/400uF/200uF 40nF/400nF/4uF/40uF/400uF/2000uF	$\pm(2.5\%+6)$	$\pm(2.5\%+5)$
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz/30MHz	$\pm(0.5\%+4)$	$\pm(0.5\%+4)$
Temperature	0°C~1000°C 0°F~1832°F	$\pm(0.8\%+4)$	$\pm(0.8\%+4)$ $\pm(0.8\%+5)$
Special function	TM-197	TM-199	
Diode test	✓		
hFE test	✓		
Analog bar		✓	
Continuity alarm	<50Ω±10Ω	<30Ω±10Ω	
Low battery indication		<2.4V	
Data hold	✓	MAX, MIN, HOLD	
Auto off		Approx.15 minutes	
Function protection		✓	
Anti-shock protection		✓	
Input impedance		10MΩ	
Sampling rate		3 times/Sec.	
AC frequency response		40~400Hz	
Operation mode		Manual range or Auto range	
Max. display	4000	6000	
LCD size		65×41mm	
Power		2×1.5V AAA	
Power dissipation		Quiescent current: approx.2mA	
Standard accessory		Test lead, Battery, User manual, Temperature probe	
Meter size		185×93×35mm	
Net weight		290g (including battery)	

Digital Inductance and Capacitance Meter TI510 Series

Features

- ✓ New style holster, stream line design
- ✓ Large LCD display, unit symbol display, easy and clear reading
- ✓ Strong antimagnetic and anti-jamming functions
- ✓ Auto off within 30 minutes
- ✓ Full function protection, capacitor self discharge



Specifications

Basic function	Range	Accuracy		
		TI-511	TI-512	TI-513
Capacitance	200pF/2nF/20nF/200nF/2uF/20uF/200uF/2000uF/20mF			±(0.5%+1)
	200pF/2nF/20nF/200nF/2uF/20uF/200uF/2000uF	±(2.0%+5)		
	2nF/20nF/200nF/2uF/20uF/2000uF		±(2.0%+5)	
Inductance	200uH/2mH/20mH/200mH/2H/20H	±(2.0%+5)		
	2mH/20mH/200mH/2H/20H		±(2.0%+5)	
Resistance	20Ω/200Ω/2kΩ/20kΩ/200kΩ/20MΩ	±(0.8%+2)		
Special function				
Low battery indication	<7.5V			
Capacitor self discharge	√			
Auto off	Approx.30min.			
Function protection	√			
Anti-shock protection	√			
Sampling rate	3 times/Sec.			
Operation mode	Auto range			
Max. display	1999			
LCD size	65×41mm			
Meter size	185×93×35mm			
Battery	9V (6F22)			
Power dissipation	Quiescent current: approx.3mA			
Standard accessory	Test lead, Battery, User manual			
Net weight	240g (including battery)			

Digital Clamp Meter TC700 Series

Features

- ✓ Clamp open 35mm
- ✓ Portable design, easy to use
- ✓ Full function protection, anti high voltage design
- ✓ CE safety design, improves operating safety



Specifications

Basic function	Range	Accuracy			
		TC-701	TC-702	TC-703	TC-704
DCV	200mV/2V/20V/200V/600V	$\pm(0.5\%+5)$	$\pm(0.5\%+5)$		
	400mV/4V/40V/400V/600V			$\pm(0.5\%+5)$	$\pm(0.5\%+5)$
ACV	200mV/2V/20V/200V/600V	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$		
	400mV/4V/40V/400V/600V			$\pm(1.0\%+5)$	$\pm(1.0\%+5)$
ACA	2A/20A/200A/600A	$\pm(2.0\%+5)$	$\pm(2.0\%+5)$		
	400A/1000A			$\pm(2.0\%+5)$	
	4A/40A/400A/600A				$\pm(2.0\%+5)$
Resistance	200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$		
	400 Ω /4k Ω /40k Ω /400k Ω /4M Ω /40M Ω			$\pm(1.0\%+3)$	$\pm(0.8\%+3)$
Capacitance	40nF/400nF/4 μ F/40 μ F/200 μ F			$\pm(3.5\%+10)$	$\pm(3.5\%+10)$
Frequency	10Hz/100Hz/1kHz/10kHz/100kHz/1MHz				$\pm(0.5\%+5)$
Temperature	-40 $^{\circ}$ C~750 $^{\circ}$ C		$\pm(1.0\%+5)$	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$
	0 $^{\circ}$ F~1832 $^{\circ}$ F		$\pm(0.8\%+4)$		
Special function	TC-701		TC-702	TC-703	TC-704
Diode test			√		
Continuity alarm			<50 Ω ±10 Ω		
Low battery indication			<2.4 V		
Data hold	MAX.HOLD		MAX.HOLD	HOLD	√
Auto off			Approx.15min.		
Function protection			Full function protection		
Input impedance			10M Ω		
Sampling rate			3 times/Sec.		
AC frequency response			Current 50Hz / Voltage (50~400)Hz		
Operation mode			Manual or auto range		
Max. display	1999		1999	4000	4000
Clamp open			35mm		
Power source			3V (2×1.5V) AAA		
Standard accessory			Test lead, battery, user manual, temperature probe 1PCS (TC-702/703/704)		
Meter size			195×65×33mm		
Net weight			200g (including battery)		

Digital Clamp Meter TC706 Series

Features

- ✓ Clamp open 35mm
- ✓ LCD unit symbol display for easy reading
- ✓ Strong antimagnetic and anti-jamming performance
- ✓ Full function protection
- ✓ Relative value, capacitance measurement, data hold
- ✓ Auto power off after 15 minutes
- ✓ Fast speed charging power supply function
- ✓ CE safety design, improves operating safety



Specifications

Basic function	Range	Accuracy	
		TC-706A	TC-706B
DCV	400mV/4V/40V/400V/600V	$\pm(0.5\%+5)$	$\pm(0.5\%+5)$
ACV	400mV/4V/40V/400V/600V	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$
ACA	400A/1000A	$\pm(2.0\%+5)$	$\pm(2.0\%+5)$
Resistance	400 Ω /4k Ω /40k Ω /400k Ω /4M Ω /40M Ω	$\pm(0.8\%+3)$	$\pm(0.8\%+3)$
Capacitance	4nF/40nF/400nF/4 μ F/40 μ F/200 μ F		$\pm(3.5\%+10)$
Frequency	100Hz/1kHz/10kHz/100kHz/1MHz/10MHz	$\pm(0.5\%+5)$	$\pm(0.5\%+5)$
Temperature	-40°C~750°C	$\pm(1.0\%+5)$	$\pm(1.0\%+5)$
Special function			
Diode test	√		
Continuity alarm	<50 Ω ±10 Ω		
Low battery indication	<2.4 V		
Data hold	√		
Auto off	Approx.15min.		
Function protection	√		
Input impedance	10M Ω		
Sampling rate	3 times/Sec.		
AC frequency response	ACA 50Hz / ACV (50~400)Hz		
Operation mode	Manual or auto range		
Max. display	4000		
Clamp open	35mm		
Power source	3V (2×1.5V) AAA		
Power dissipation	Quiescent current approx.2mA		
Standard accessory	Test lead, battery, user manual, temperature probe		
Meter size	195×65×33mm		
Net weight	290g (including battery)		

Digital Thermometer

Features

- ✓ New style holster, anti-shock and compact design, easy to carry
- ✓ Large LCD display for easy reading
- ✓ Temperature measuring, °C and °F display
- ✓ Strong antimagnetic and anti-jamming functions

TH-623:

- ✓ Support K, E, J, T, N, B, R, S types thermocouples
- ✓ Temperature alarm and alarm output function
- ✓ Setting beeper alarm when temperature is above or below preset value; setting alarm loop difference; photo-coupler output alarm jack ON/OFF function; beeper sound ON/OFF function
- ✓ Storage function: support manual storage for 2500 values and auto storage for 6000 values, adjustable storage period, max. storage period: 99 hours

TH-624:

- ✓ Dual channel temperature measuring, display T1, T2, T1-T2
- ✓ Storage function: support manual storage for 2500 values and auto storage for 6000 values, adjustable storage period, max. storage period: 99 hours



Specifications

Basic function

TH-621 temperature range

Range	-50°C~199°C	-50°C~1000°C	1000°C~1300°C	-50°F~199.9°F	-50°F~1999°F
Accuracy	±(0.2%+1)	±(0.3%+1)	±(0.5%+1)	±(0.3%+2)	±(0.5%+2)

TH-622 temperature range

Range	-50°C~1000°C	1000°C~1300°C	-50°F~1999°F	T1-T2 (°C/°F)
Accuracy	±(0.3%+1)	±(0.5%+1)	±(0.3%+2)	±[3% (reading of T1-T2)+2]

TH-623/624 temperature range

Range	R: -40°C~1760°C E: -200°C~1370°C	S: -20°C~1760°C J: -200°C~1200°C	B: 400°C~1800°C T: -200°C~400°C	E: -200°C~1000°C N: -200°C~1300°C
Accuracy	±(0.3%+1) and ±[0.3%(T1-T2 reading)+2]			

Special function	TH-621	TH-622	TH-623	TH-624
Low battery indication	<7.5V			
Data hold	√			
Unit symbol display	√			
Function protection	√			
Anti-shock protection	√			
Input impedance	10MΩ			
Sampling rate	3 times/Sec.			
Operation mode	Manual range			
Max. display	1999			
LCD size	67×40 mm			
Meter size	130×95×405 mm			
Battery	9V (6F22)			
Power dissipation	Quiescent current: approx.3.5mA		Quiescent current: approx.5mA	
Standard accessory	Battery, User manual, K type temperature probe			
Net weight	240g (including battery)			

Digital Thermometer

Features

- ✓ Large LCD display for easy reading
- ✓ Strong antimagnetic and anti-jamming functions
- ✓ Fast temperature measurement
- ✓ Max./Min. data hold, alarm function, clock function
- ✓ Indoor and outdoor temperature and humidity measurement



Specifications

Basic function	Temperature Range	Accuracy	Humidity Range	Accuracy
TH-601	-10°C~60°C 14°F~140°F	±1°C ±1.8°F	20%~95%	±8%
TH-601B	-50°C~70°C -58°F~158°F	±1°C ±2°F	10%~99%	
TH-602	Indoor: -10°C~50°C 14°F~122°F Outdoor: -50°C~70°C -58°F~158°F	±1°C ±1.8°F ±1°C ±1.8°F	20%~95%	±8%
TH-602B	-50°C~70°C -58°F~158°F	±1°C(0°C~40°C: ±0.5°C) ±2°F	10%~99%	±10% (35%~75%: ±5%)
Special function	TH-601	TH-601B	TH-602	TH-602B
Clock function	✓	✓	✓	✓
Hourly chime function	✓	✓	✓	✓
Max./Min. data hold	✓	✓	✓	✓
Frost point alarm			✓	✓
Long distance measurement			Line length: approx. 2 meters (sensor placed outdoor)	
Sensor	Built-in temperature and humidity sensor		Built-in and external temperature & humidity sensor	
LCD size	67×85mm		67×85mm	
Meter size	118×100×20mm		118×100×20mm	
Battery	1.5V (AAA)		1.5V (AAA)	
Standard accessory	Battery, User manual		Battery, User manual	
Net weight	150g (including battery)		150g (including battery)	

Tachometer

Product photo



Specifications

Basic function	Range	Accuracy		
		TT-734B	TT-735B	TT-736B
Photo rotation speed	2.5~99,999RPM (r/min)	±(0.05%+1d)		±(0.05%+1d)
Contact rotation speed	0.5~19,999RPM (r/min)		±(0.05%+1d)	±(0.05%+1d)
Contact line speed (Metric)	0.05~1999.9m/min		±(0.05%+1d)	±(0.05%+1d)
Contact line speed (Imperial)	0.2~6560in/min		±(0.05%+1d)	
Special function	TT-734B	TT-735B	TT-736B	
	LED Photo	Contact	LED Photo	
Resolution	0.1RPM (2.5~999.9RPM) 1RPM (over 1000RPM)	Rotation speed: 0.1RPM (r/min) (0.5~999.9RPM) 1RPM (r/min) (>1000RPM) Line speed: 0.01m/min (0.05~99.99m/min) 0.1m/min (>100m/min) 0.1in/min (0.1~999.9in/min) 1in/min (>1000in/min)	Photo rotation speed: 0.1RPM (2.5~999.9RPM) 1RPM (>1000RPM) Contact rotation speed: 0.1RPM (0.5~999.9RPM) 1RPM (>1000RPM) Contact line speed: 0.01m/min (0.05~99.99m/min) 0.1m/min (>100m/min)	
Accumulation function	1~99999			
Sampling time	0.5s (>120RPM)	0.5s (>120RPM)	0.5s (>120RPM)	
Range selection	Auto range	Auto range	Auto range	
Effective distance	50mm~250mm		50mm~250mm	
Power consumption	Max.40mA	Max.45mA	Max.45mA	
Data hold	Auto memory Max., Min., Last value	Auto memory Max., Min., Last value	Auto memory Max., Min., Last value	
Time base	6MHz Quarts crystal	6MHz Quarts crystal	6MHz Quarts crystal	
Time base accuracy	10×10 ⁻⁶ (0°C~50°C)	10×10 ⁻⁶ (0°C~50°C)	10×10 ⁻⁶ (0°C~50°C)	
Power source	4×1.5V AA batteries	4×1.5V AA batteries	4×1.5V AA batteries	
Size	160×72×37mm	160×72×37mm	160×72×37mm	
Max. Display	99999	19999	99999	
LCD size	5 digits LCD display	5 digits LCD display	5 digits LCD display	
Back light	Yellow green backlit LCD		Yellow green backlit LCD	
Accessories	Battery, Carrying case, User manual	Carrying case, Reflecting tape marks, Damp proof accessory, Bolt bag, Contact speed measurement fitting, Contact rotational speed measurement fitting. User manual	Battery, Carrying case, User manual	

Resistivity Meter

Features

- ✓ Measuring surface resistivity and resistance (Ω): $10^3 \sim 10^5$ (Conductive), $10^6 \sim 10^{11}$ (Static Dissipative), 10^{12} (Insulative)
- ✓ Using 10 LEDs to indicate test result
- ✓ Compact design, easy to carry, simple operation
- ✓ High sensitivity, giving immediate indication of surface resistivity value (Ω)
- ✓ Manufactured in compliance with U.S. ASTM D-257 standard of parallel bar sensing



Specifications

Measurement range	$10^3 \Omega \sim 10^{12} \Omega$
Display accuracy	± 0.5
Dimension	70×27×130mm
Weight	140g
Power source	9V battery

Specifications are subject to change without prior notice.