

TECPEL®

Your Reliable Partner in T&M™



EMC-LVD

Test and Measurement



We are providing wide range of portable instruments for speedy delivery at competitive prices. Our quality products have been accepted by some well-known int'l companies. Our product line includes Oscilloscope, Power Supplies, Multi-meters, Thermometers, Clamp meter, Light meter, Sound Level Meter, LCR Meters and more.

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TECPEL Precision LCR Instrument

200KHz LCR Instrument



LCR-200



- Measurement Parameters: Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q, and Basic Accuracy 0.2%.
- Test conditions: 100MHz, 120Hz, 1KHz, 10KHz, 100KHz, 200KHz; 1Vrms, 250mVrms, 50mVrms, 1Vdc(DCR only)
- DMM Functionalities
- Dual LCD Display with LED backlit
- Open/Short calibration
- Remote binning capability
- Auto range/range hold selection
- RS-232 interface

Test Conditions		Measurement Ranges		AC/DC current	
Frequency	100Hz/120Hz/1KHz/10KHz/ 100KHz/200KHz	Z	0.000 Ω to 500.0 MΩ	Range	2A, 0.2A, 20mA and 2mA
Level	1V rms/250mVrms/ 50mVrms/ 1Vdc(DCR only)	L	0.030 μH to 9999H	Resolution	1mA, 0.1mA, 0.01mA and 1uA
Measurement Parameters	Z, Ls, Lp, Cs, Cp, DCR, ESR, D, Q, and θ .	C	0.003 pF to 80.00 mF	Accuracy	±(0.4%+3 digits) DC ±(0.8%+5 digits)AC@40Hz~1KHz
Basic Accuracy	0.2%	DCR	0.000 Ω to 500.0 MΩ	Current shunt	0.1Ω@curent ≥ 20mA; 10Ω@curent ≤ 20mA
Primary Parameters Display		ESR	0.000 Ω to 9999 Ω	Continuity Check	
Z	AC impedance	D	0.000 to 9999	Continuity Threshold	50Ω(approximately)
DCR	DC resistance	Q	0.000 to 9999	Continuity Indicator	Tone Buzzer
Ls	Serial inductance	θ	-180.0° to 180.0°	Input Protection:	600V (max)
Lp	Parallel Inductance	V	0.000mV to ± 600.0V	Diode Test	
Cs	Serial Capacitance	I	0.000mA to ± 2.000A	Test Current	2.5mA (Typical)
Cp	Parallel Capacitance	DMM Functionalities DCV, ACV, DCA, ACA, Diode/ Continuity Check		Open circuit voltage	5.0VDC (Nominal)
Secondary Parameters Display		DC Voltage		Input Protection	600V (Max.)
θ	Angle impedance	Range	2V, 20V, 200V and 600V	General	
ESR	Equivalent Series Resistance	Resolution	1mV, 10mV, 100mV, 1V	Temperature	0 to 40°C (Operating) -20 to 70°C (Storage)
D	Dissipation Factor	Accuracy	±(0.4%+ 3 digits)	Relative Humidity	Up to 85%
Q	Quality Factor	Input impedance	1MΩ	AC power	110V/220V±10%, 60/50Hz
Combinations of display		AC Voltage (True RMS)		Dimensions (DxWxH)	300x220x150mm (11.8"x8.7"x5.9")
Serial Mode	Z-θ, Cs-D, Cs-Q, Cs-ESR, Ls-D, Ls-Q, Ls-ESR	Range	2V, 20V, 200V and 600V	Weight	4.5 kgs
Parallel Mode	Cp-D, Cp-Q, Lp-D, Lp-Q	Resolution	1mV, 10mV, 100mV, 1V	Standard Accessories	TL-09C Kelvin Clips x 1pc Test Leads x 1pc
		Accuracy	±(0.8%+5 digits) @ 40Hz~ 1KHz		
		Input impedance	1MΩ		

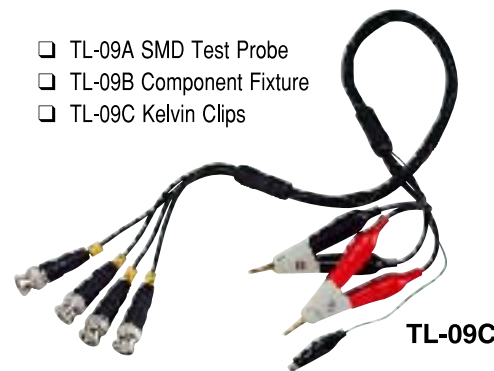
Optional Accessories



TL-09A



TL-09B



TL-09C

- TL-09A SMD Test Probe
- TL-09B Component Fixture
- TL-09C Kelvin Clips

TEPEL Function Generator

15MHz Digital Function Generator



FG-15



- New 15MHz Function Generator can generate extremely clean and low distortion waveform output
- Rotary menu driven pop up and down function for easy operation
- TTL output up to 90 MHz
- Low noise signal source
- Optional 2GHz frequency counter
- Triangle, Square, Sine, TTL Sync out, Asymmetry, Ramp up, Log waveforms and DC
- Duty cycle up to 15MHz for TTL, resolution 0.1%
- Amplitude attenuation - 60db

Function Generator Waveforms	Triangle, Square, Sine, TTL sync out, Asymmetry, Ramp up, Log waveforms and DC
Function Output range	0.2Hz ~ 15MHz
TTL Output range	0.2Hz ~ 90MHz
Resolution	4 digits
Symmetry/Duty cycle	20% to 80% up to 1MHz; 40% to 60% up to 10MHz
Impedance	50 Ω ± 5%
Amplitude	±10V into open circuit; ±5V into 50Ω
Attenuation	0 dB, -20dB, -40dB, -60dB
DC offset	± 10V into open circuit; ±5V into 50Ω
Square Wave	Rise of Fall time: < 15nS at full amplitude(50Ω) Aberration: <5% of Vp at full amplitude (50Ω)
Triangle Linearity Error	99% up to 100KHz
Sine Wave Distortion	< -30 dB when f ≤ 2MHz < -25 dB when f > 2MHz
Sync output (TTL pulse)	TTL logic clock 0.2Hz ~ 90MHz Sync output 0.2 Hz ~ 15MHz Output impedance 50Ω

Sweep	Width:	Li or Log during selecting range
	Rate:	0.2Hz ~ 100Hz (5 sec ~ 10 msec)
VCG Characteristics	Control range: Max input 0 to 1.8Vdc for selecting range Input impedance: 2KΩ ± 1%	
Function Out protection	≤ 20V peak on "Funct Out" terminals	
Frequency Counter		
Range	0.2Hz ~ 100MHz (Standard) 100MHz ~ 2GHz (Option)	
Accuracy	± 5 count + time base error	
Resolution	4 digits for internal counter; 7 1/2 digits for external counter	
Duty Cycle measurement (TTL level only)	Resolution: 3 digits Accuracy: 3% + 10 counts; 5Hz ≤ f ≤ 10MHz	
Power	AC 115/230V; 50/60Hz	
Dimensions (DxWxH)	300x220x150mm(11.8"x 8.7"x 5.9")	
Accessories	Power Cord	



Real 15MHz
Square waveform

Function Generator/ Oscilloscope

3MHz Digital Function Generator



CE
EMC-LVD
FG-32

- ❑ 6 Functions, 6 ranges with counter:
 - Six waveform functions - Sine, triangle, square, ramp ± pulse
 - Frequency Range 0.5Hz ~ 3MHz
- ❑ 5 digit autorange counter LED display
- ❑ Internal/External counter function
- ❑ Linear/Log sweep, Sweep rate 10mS ~ 5S.
- ❑ External counter trigger level control
- ❑ VCF input 0 ~ ±10V voltage control frequency to 1000
- ❑ Amplitude: 20Vp-p (open); 10Vp-p (50Ω load)

Main Function Output		Rate	From 10mS to 5S continuously variable
Frequency Range	0.5Hz to 3MHz in 6 ranges	Counter	
Waveforms	Sine, Triangle, Square, Ramp ± Pulse	Display	Autorange 5 digits 0.36 red LED display
Amplitude	20Vp-p/ Open, 10Vp-p/50Ω Load	Gate Time	Auto select (0.25S ~ 10S)
Attenuator	0dB, -20dB (± 2%)	Resolution	0.001Hz
Output impedance	50Ω (± 2%)	Mode	INT function generator/ EXT counter
DC Offset	±10V with pull ADJ Switch	Accuracy	± time base accuracy ± 1 count
Frequency Accuracy	Counter Accuracy	Time Base	20MHz ± 10PPM (23 ± 5°C)
Distortion	< 1% , 1Hz to 100KHz	Accuracy	± 5 count + time base error
Rise/Fall Time	< 60nS	Frequency Range	0.2Hz ~ 60MHz
V.C.F Input	0 to ± 10V control frequency to 1000:1	Sensitivity	25mV rms at 1MHz
SYNC output		Max. Input	250V rms
Rise time	< 40nS	Max. Impedance	1MΩ ± 2%
Level	> 3Vp-p (open)	Power Source	AC 115V/230V ±1.0%, 50/60Hz, 25 watt
Waveform	Square, pulse	Dimension (W x H x D)	275x90x300mm(10.9"x3.6"x11.8")
Sweep Mode:	Linear/Log Sweep	Net Weight	2.5 kgs
Sweep Width:	>100: 1 continuously variable		

20 MHz Oscilloscope



CE
EMC-LVD
GOS-620

- ❑ 20MHz, dual channel
- ❑ High sensitivity 1mV/DIV
- ❑ Channel 1 output 20mv/DIV
- ❑ TV synchronization
- ❑ Z axis input
- ❑ ALT triggering function
- ❑ X5 magnification DC ~ 7MHz
- ❑ Horizontal sweep 0.2μs ~ 0.5s/DIV
- ❑ AC trigger coupling
- ❑ XY bandwidth DC ~ 500KHz

CRT	Type 6-inch rectangular type with internal graticule 8 x 10 DIV (1 DIV=1 cm) Z - axis input Input Impedance : Approx. 47KΩ Sensitivity : Above 5Vp-p Bandwidth : DC ~ 2MHz	Trigger	Trigger Mode AUTO, NORM, TV-V, TV-H Trigger Source CH1, CH2, ALT, LINE, EXT Trigger Coupling AC Trigger Slope "+" or "-"
Vertical System	Sensitivity 5mV ~ 5V/DIV +3%, x 5MAG+5% Bandwidth DC (AC 10Hz) ~ 20MHz (-3dB) DC (AC 10Hz) ~ 7MHz (-3dB) x 5MAG Rise Time 17.5nS (50nS at x 5MAG) Input Impedance Approx. 1MΩ Input Coupling AC, DC, GND Vertical mode CH1, CH2, DUAL (ALT/CHOP), ADD, CH2 INV	X - Y Operation	Sensitivity 5mV ~ 5V / DIV+4% X-axis Bandwidth DC ~ 500kHz Phase Error 3° or less from DC ~ 50kHz
Horizontal System	Sweep Time 0.2μS ~ 0.5S/DIV+3%jF 100nS ~ 50mS/DIV±5% (x 10MAG)jF 20nS ~ 50nS/DIV:uncalibrated	Output Signal	Trigger Signal Output Voltage : approx. 20mV/DIV into 50Ω Calibrator Output 1kHz Square wave, 2Vp-p±2%
		Power Source	AC 115V/230V ±15%, 50/60Hz
		Accessories	Power cord x 1 ; Instruction manual x 1 ; Probes(10:1/1:1) x 2
		Dimensions (WxHxD)	310x150x455mm (12.2"x5.9"x17.7")
		Weight	Approx. 8kg

TECPEL Programmable DC Power Supplies

Dual output 35V/ 2A x 2



PPS-3520

- Standard GPIB Interface
- Electronic calibration via front panel or GPIB
- Programmable over voltage and over current protection
- Low ripple and noise output
- Voltage controlled external programming capabilities
- Output enable and disable
- Remote sensing function
- Programmable up/down fine tuning
- Power-off memory
- 4 Digit LCD display easy to read

DC Output Max Ratings	70W per Channel	Ripple and noise	10mVp-p
Output Voltage	Dual 0 to 35V	Read back Accuracy	
Output Current	Dual 0 to 2A	Voltage	0.1%+2LSB
Programming Accuracy		Current	0.2%+5LSB
Voltage	0.05%+2LSB	Transient Recovery	50µsec. typical
Current	0.15%+5LSB	Programming	15ms/20ms typical
Programming Resolution		General	
Voltage	10mV	Power requirement	115V, 230VAC ±10%, 50/60Hz
Current	0.6 mA	Dimensions (WxHxL)	213x132x399mm (8.4"x5.2"x15.7")
Operating temperature	0 to 50° C.	Weight	18 lbs(8.16kgs)
Ripple and noise	1 mV rms	Accessories	Test leads, power cord and owners manual

Triple Output ± 30V/2.5A



TPT-3025

- Easy operation with up/down keys
- Max. output power 165 watts
- Output voltage: 0 to 30V, 0 to - 30V
- Resolution: 10mV
- Max. output voltage: + 32V/-32V
- Dual tracking: 0 to ± 30V
- Output current: 0 to + 2.5A, 0 to -2.5A
- Resolution: 1mA
- Fixed 3.3V/5V output voltage at 3A
- Self test and software calibration
- 12 Bits D/A converter accuracy
- Simultaneous display of voltage and current outputs
- Forced air cooling method
- Overload warning and status change indication by beeper
- RS232 computer interface

Max Output Power	165 Watts
Output Voltage	0 to + 30V, 0 to - 30V, Fixed 3.3V/5V
Setting Resolution	10mV
Max Output Voltage	+32V/-32V
Dual Tracking	0 to ±30V
Tracking Deviation	±20mV
Line regulation	1mV (Fixed 3.3V/5V 5mV)
Load regulation	2mV
Ripple and noise	1.5mVrms
Ripple peak(p-p)	10mVp-p
Output current	0 to ± 2.5A

Setting resolution	1mA
Max. Output Current	+3A/-3A
Line regulation	15mA typical
Load regulation	10mA typical
Ripple and Noise	1mA rms typical
Ripple peak(p-p)	5mA p-p typical
General	
Power requirement	115V, 230V AC ±10%, 50/60Hz
Dimensions (WxHxL)	213x132x399mm (8.4"x5.2"x15.7")
Weight	18 lbs(8.16 kgs)
Accessories	Test leads, power cord and owners manual

TECDEP Automotive Multimeter

Autoranging + 20A+ Temperature



DMM-8088

- 3 3/4 digit, 4000 count display
- Auto-ranging on DC/AC volts, frequency, and capacitance
- Resistance, diode and continuity test
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Inductive RPM pickup
- Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls
- Temperature measurement
- Max/Min, Data Hold, Zero (relative readings) functions
- Overload Protection on all ranges

DC Voltage Ranges	400mV, 4V, 40V, 400V, 1000V $\pm(0.5\%+1dgt)$
AC Voltage Ranges	400mV, 4V, 40V, 400V, 750V $\pm(2.0\%+5dgt)$
DC Current Ranges	400mA $\pm(1.0\%+1dgt)$, 20A $\pm(1.5\%+1dgt)$
AC Current Ranges	400mA $\pm(1.5\%+3dgt)$, 20A $\pm(2.0\%+3dgt)$
Resistance Ranges	(Auto-ranging) 400 Ω , 4K Ω , 40K Ω , 400K Ω , 4000K Ω , 40M Ω . $\pm(2.0\%+4dgt)$
Capacitance Ranges	(Auto-ranging) 4nF, 40nF, 400nF, 4 μ F, 40 μ F. $\pm(2.0\sim 5.0\%+4dgt)$
Frequency Ranges	(Auto-ranging) 100Hz, 1KHz, 10KHz, 100KHz, 400KHz. $\pm(0.1\%+4dgt)$
Temperature Ranges	-50 to 1100°C $\pm(1.0\%+2^\circ C)$; -50 to 2000°F $\pm(1.0\%+4^\circ C)$
Frequency Ranges	(Auto-ranging) 100Hz, 1KHz, 10KHz, 100KHz, 400KHz $\pm(0.1\%+4dgt)$
RPM Ranges	600 to 4000 low; 1000 to 12000 high RPM(TACHO) manual ranging $\pm(2\%+1dgt)$
Dwell Angle	4,5,6,8 Cylinders $\pm(2.0\%+5dgt)$
Duty Cycle	0.0 to 90.0% $\pm(2.0\%+5dgt)$
ms Pulse Width	0.1ms to 10.0ms $\pm(2\%+0.2ms)$
Diode Test	0.6mA typical $\pm(2.0\% +4dgt)$
Audible Continuity	Open circuit voltage: 0.4VDC, Audible threshold: <40 Ω
Overload protection	1000VDC or 750VAC RMS for DC/AC Voltage; 0.5A, 20A /600V Fused for DC/AC Current 60VDC or 24VAC RMS for temperature 500VDC or AC RMS for other ranges
General	
Power Requirement	9V Battery x1
Dimensions	2"x3.8"x7.9"(52x96x200mm)
Weight	17.5 Oz(495g)
Accessories	Test Leads, holster, battery, owners manual, K-type Thermocouple probe, Inductive RPM pickup probe.
Optional Accessories	CA-600 DC/AC current Clamp, 400 Amp.

Inductive RPM Pickup Probe



HA-100

- Standard accessory for DMM-8088

AC/DC Current Clamp Adapter



CA-600



- Converts any DMM to a current clamp
- Measure current without disconnecting circuit under test
- AC/DC 600A capability
- Dual Hall-effect sensors
- Accuracy DC: $\pm 2\%+2A$ AC: $\pm 3\%+2A$ (50~ 400Hz)
- For use with any multi-meter at 200mV or 2V ranges for direct readout. Input impedance at least 1M Ω
- Power on indicating
- Zero adjustment knob to compensate the hysteresis effect in DC Measurements.
- Transformer ratio: 1000: 1
- Output 1mV/A
- Jaw opening capability: 30mm conductor
- Confirm to Safety: IEC 1010-1, IEC1010-2-032. UL, CE approved.
- Low battery indication
- Able to work with oscilloscope by using optional accessory CA-06 (BNC male to dual binding post)

Measurement range	600 A DC or AC
Accuracy	$\pm(2\% \text{ reading} + 2A)$
Frequency Response(AC)	50Hz to 400Hz
Input Resistance	10KHz typical
Maximum Conductor Size	1.1" (30mm)
General	
Power Requirement	9V battery
Dimensions	7"x2.75"x1.3"(178x70x33mm)
Weight	11 Oz. (290g)
Accessories	Battery, owners manual



CA-06

TECHNICAL Digital Multimeters



RS-232



DMM-8060 / DMM-8061

3 3/4 DMM + Temperature

- AC True R.M.S. and RS-232C Interface (DMM-8061)
- 3 3/4 digits, 3,999 counts
- Auto and Manual ranging
- Data Hold Function
- Relative Mode
- Capacitance measurement
- Temperature measurement (-40°C ~ 1,000°C)
- Frequency Measurement (10Hz ~ 10 MHz)
- Audible Continuity Check
- Diode Test
- Overload protection
- Fused 10A protection
- Sleep Mode (DMM-8060)
- Over molding rubber overlapping ABS plastic to substitute holster

DC Voltage Ranges	400mV, 4V, 40V, 400V, 1000V±(0.8%+1dgt)
AC Voltage Ranges	4V, 40V, 400V, 750V±(1%+5dgts)
DC Current Ranges	400µA, 4000µA, 40mA, 400mA, 4A, 10A±(1%+2dgts)
AC Current Ranges	400µA, 4000µA, 40mA, 400mA, 4A, 10A±(1.5%+5dgts)
Resistance Ranges	400Ω, 4KΩ, 40KΩ, 400KΩ, 4MΩ, 40MΩ, ±(1%+2dgts)
Capacitance Range	40nF, 400nF, 4µF, 40µF, 100µF±(3%+5dgts)
Frequency Range	10 ~ 10MHz±(0.1%+3dgts)
*Duty Cycle *Diode Test *Continuity Buzzer *Data Hold *Relative Mode	
*Backlight Display	
*Low battery display *Input impedance for DC Voltage Around 10MΩ	
General	
Max. Display	3999
Power Requirement	9V Battery x1
Dimensions	7.0"x3.4"x1.5" (177x85x40mm)
Weight	17 Oz(482g)
Accessories	Test leads, battery, soft ware (DMM-8061) and owners manual



DMM-135

3 3/4 DMM + Auto ranging

- 3 3/4 DMM +Auto ranging
- 3 3/4 Digits, 3,999 Counts
- 8 functions, 21 ranges
- Continuity Beeper
- Diode Test
- Auto Ranging

DC Voltage Ranges	400mV, 4V, 40V, 400V, 500V, ±(0.8%+1dgt)
AC Voltage Ranges	4V, 40V, 400V, 500V, ±(1.2%+3dgts)
DC Current Ranges	400uA, 4000uA, 40 mA, 400mA, 4A, 10A ±1.0%+2dgts)
AC Current Ranges	400uA, 4000uA, 40 mA, 400mA, 4A, 10A ±1.5%+5dgts)
Resistance Ranges	400, 4K, 40K, 400K, 4M, 40MΩ, ±(1%+2dgts)
Overload protection	250V for R, diode, continuity & temperature and 500mA, 250V fast type fuse for AC /DC current, 10A unfused., 500V for AC/DC Voltage
Diode Test ,Continuity Beeper, Low battery display, Input impedance for DC Voltage measurement approx. 10MΩ	
General	
Power Requirement	1.5V Battery (AAA x 2)
Dimensions	5.2"x2.8"x1.4" (130x72x35mm)
Weight	5.44 Oz(156g)
Accessories	Test leads, battery, and owners manual



DMM-134

3 1/2 DMM+ Temperature

- 3 1/2 digits, Max. 1,999 counts display
- 7 Functions, 19 ranges
- Temperature measurement -40°C ~ 1000°C
- Resistance Measurement up to 200MΩ
- Continuity Beeper
- Data Hold Function

DC Voltage Ranges	200mV, 2000mV, 20V, 200V, 500V, ±(0.5%+2dgt)
AC Voltage Ranges	200V, 500V, ±(1.2%+10 dgts)
DC Current Ranges	2000uA, 20mA, 200mA, 10A ±(1%+2dgts)
Resistance Ranges	200, 2K, 20K, 200K, 20MΩ, ±(0.8%+2dgts)
Overload	250V for R, diode, continuity & temperature and 315mA, 250V fast
Protection	Type fuse for DC current, 10A unfused, 500V for AC/DC Voltage(except 200mV range 250V)
Diode Test ,Continuity Beeper, Low battery display, Input impedance for DC Voltage measurement approx. 10MΩ	
General	
Power Requirement	1.5V battery (AAA x 2)
Dimensions	5.2"x2.8"x1.4" (130x72x35mm)
Weight	5.44 Oz(156g)
Accessories	Test leads, battery, and owners manual

Heavy Duty Digital Multimeters



DMM-8007



3 1/2 DMM+Inductance

- 0.5% DC V accuracy
- 1.999 count LCD display
- Resistance to 2000MΩ
- Frequency to 20MHz
- Capacitance measurement
- Inductance measurement
- Logic test
- Transistor hFE test
- Audible continuity test
- Drop-proof to 10ft
- Overload protection
- Meet IEC-348 and UL-1244 standard
- 2-year warranty

DC Voltage Ranges	200mV, 2V, 20V, 200V, 1000V, ±(0.5%+1dgt)
AC Voltage Ranges	200mV, 2V, 20V, 200V, 750V, ±(1.2~2%+3dgts)
DC Current Ranges	20mA, 200mA, 20A, ±(1~3%+3dgts)
AC Current Ranges	20mA, 200mA, 20A, ±(1.5~3.5%+4dgts)
Resistance Ranges	200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ, 2000MΩ, ±(1~5%+10dgts)
Capacitance Range	2nF, 20nF, 200nF, 2μF, 200μF, ±(5%+10dgts)
Inductance Ranges	2mH, 20mH, 200mH, 2H, 20H, ±(5%+10dgts)
Frequency Range	2KHz-20MHz, ±(0.5%+10dgts)>20Hz
*Diode Test * Transistor test (hFE) *Logic Test	
General	
Power Requirement	9V Battery x1
Dimensions	190x86x38mm (7.5"x3.4"x1.5")
Weight	17 Oz(482g)
Accessories	Test leads, holster, battery, and owners manual



DMM-8020



3 3/4 DMM+Capacitance

- 0.5% DC V accuracy
- 3.999 count LCD display
- Resistance to 2000MΩ
- Frequency to 40MHz
- Capacitance measurement
- Logic test
- Transistor hFE test
- Audible continuity test
- Drop-proof to 10ft
- Overload protection
- Meet IEC-348 and UL-1244 standard
- 2-year warranty

DC Voltage Ranges	400mV, 4V, 40V, 400V, 1000V, ±(0.5%+1dgt)
AC Voltage Ranges	400mV, 4V, 40V, 400V, 750V, ±(1.2~2%+3dgts)
DC Current Ranges	40mA, 400mA, 20A, ±(1~3%+3dgts)
AC Current Ranges	40mA, 400mA, 20A, ±(1.5~3.5%+4dgts)
Resistance Ranges	400Ω, 4KΩ, 40KΩ, 400KΩ, 4MΩ, 40MΩ, ±(0.75~2%+5dgts)
Capacitance Range	4nF, 40nF, 400nF, 4μF, 40μF, ±(3%+10dgts)
Frequency Range	4KHz, 40KHz, 400KHz, 4000KHz, ±(0.1%+4dgts)
Diode Test, Transistor Test(hFE), Logic Test.	
General	
Power Requirement	9V Battery x1
Dimensions	190x86x38mm (7.5"x3.4"x1.5")
Weight	17 Oz(482g)
Accessories	Test leads, holster, battery, and owners manual



DMM-8050



4 1/2 DMM+True RMS

- True RMS
- 19.999 count LCD display
- 0.05% DC V accuracy
- High voltage to 1,000 DC and 750VAC
- 20A DC/AC current range and 20MΩ
- Frequency measurement
- Data hold
- Logic test
- Duty cycle measurement
- Drop-proof to 10ft.
- Overload protection
- Meet IEC-348 and UL-1244 standard
- 2-year warranty

DC Voltage Ranges	200mV, 2V, 20V, 200V, 1000V, ±(0.05%+3dgts)
AC Voltage Ranges	200mV, 2V, 20V, 200V, 750V, (True RMS), ±(1~2%+20dgts)
DC Current Ranges	200μA, 2mA, 20mA, 200mA, 20A, ±(0.5~2%+10dgts)
AC Current Ranges	200μA, 2mA, 20mA, 200mA, 20A, (True RMS), ±(0.8~2.5%+10dgts)
Resistance Ranges	200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ, ±(0.15~1%+10dgts)
Frequency Range	2KHz, 20KHz, 200KHz
Diode Test, Logic Test.	
General	
Power Requirement	9V Battery x1
Dimensions	190x86x38mm (7.5"x3.4"x1.5")
Weight	17 Oz(482g)
Accessories	Test leads, holster, battery, and owners manual



DMM-120

Low Price Digital Multimeter

- ❑ 3 1/2 Digit, 1.2% basic accuracy
- ❑ 7 Functions, 17 Ranges
- ❑ DCV, ACV, DCA and OHMS
- ❑ hFE and diode check
- ❑ Battery test with load
- ❑ Compact, rugged and safety design

DC Voltage Ranges	2V, 20V, 200V, 600V, $\pm(1.2\%+1\text{dgt})$
AC Voltage Ranges	200V, 500V, $\pm(2.0\%+4\text{dpts})$
DC Current Ranges	2A, $\pm(2.5\%+2\text{dpts})$
Resistance Ranges	200 , 2K, 20K, 200K, 2000K Ω , $\pm(1.5\%+3\text{dpts})$
Overload protection	500V for R, diode 2A fuse
Diode Test , Transistor Test(hFE), Battery test.	
General	
Power Requirement	9V Battery x1
Dimensions	147x70x39mm (5.8"x2.8"x1.5")
Weight	12.9 Oz(370g)
Accessories	Test leads, holster, battery and owners manual



DMM-123

DMM + Capacitance

- ❑ 3 1/2 Dight, 0.8% basic accuracy
- ❑ 9 Functions, 36 Ranges
- ❑ Capacitance 2nF~20 μ F
- ❑ Instant continuity beeper
- ❑ Compact, rugged and safety design
- ❑ 10 Amps DC/AC fuse protected

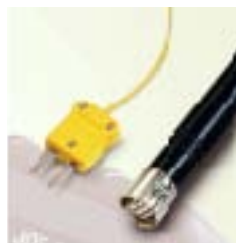
DC Voltage Ranges	200mV, 2V, 20V, 600V, $\pm(0.8\%+1\text{dgt})$
AC Voltage Ranges	200mV, 2V, 20V, 600V, $\pm(2.0\%+3\text{dpts})$
DC Current Ranges	200 μ A, 2mA, 20mA, 200mA, 10A, $\pm(3\%+3\text{dpts})$
Resistance Ranges	200 Ω , 2K, 20K, 200K, 2000K, 20M, 2000M Ω , $\pm(1-5\%+10\text{dpts})$
Capacitance Range	2nF, 20nF, 200nF, 2 μ F, 20 μ F, $\pm(4\%+10\text{dpts})$
Overload protection	500V for R, diode, continuity; 0.5A and 10A fuse
Diode Test , Transistor Test(hFE).	
General	
Power Requirement	9V Battery x1
Dimensions	147x70x39mm (5.8"x2.8"x1.5")
Weight	12.9 Oz(370g)
Accessories	Test leads, holster, battery and owners manual



DMM-124

DMM+ Type K Temperature

- ❑ 3 1/2 Digit, 1.2% basic accuracy
- ❑ 8 Functions, 23 ranges
- ❑ DCV, ACV, and Ohms measurement
- ❑ Capacitance 20 μ F ~20mF
- ❑ Frequency measurement 10Hz to 40kHz
- ❑ Type K Temperature measurement
-20°C~750°C, -4°F~1400°F
- ❑ Phase indicator
- ❑ Diode /Continuity test



DC Voltage Ranges	200mV, 2V, 20V, 600V $\pm(1.2\%+1\text{dgt})$
AC Voltage Ranges	200mV, 2V, 600V $\pm(2.0\%+4\text{dgt})$
Resistance Ranges	200 Ω , 2K Ω , 20K Ω , 200K Ω , 2000K Ω , 20M Ω , 2000M Ω , $\pm(1.0-2.0\%+4\text{dpts})$ 200 Ω ~10M Ω
Capacitance Ranges	20 μ F, 200 μ F, 2000 μ F, 20mF
Temperature	-20°C~750°C, -4°F~1400°F, $\pm(3.0\%rdg+2^\circ\text{C})$, $\pm(3.0\%rdg+4^\circ\text{F})$
Frequency Range	Auto ranging 10Hz to 40KHz. $\pm(0.1\%+2\text{dpts})$
Phase Indicator	Freq. 45Hz to 450Hz, Voltage: 80V to 480V
Overload Protection	Temperature: 60VDC or 24V AC RMS Capacitance : 250V/1.5A 500V DC for other ranges
Diode Test, Continuity Beeper < 100Ω	
General	
Power Requirement	9V Battery x1
Dimensions	147x70x39mm (5.8"x2.8"x1.5")
Weight	12 Oz(340g)
Accessories	Test leads, holster, battery, K-type thermocouple TPK-01x1 and owners manual.

TEOPREL Low Cost Multimeters

Autoranging + Bar Graph



- 3200 Count, 1.2% basic accuracy
- 7 Functions, 27 Ranges
- Auto and manual ranging
- 34 Segment fast bargraph
- Auto Power OFF to save battery
- 10 Amps and mA DC/AC fuse protected



DMM-125

DC Voltage Ranges	320mV, 3.2V, 32V, 320V, 600V, $\pm(1.2\%+1\text{dgt})$
AC Voltage Ranges	3.2V, 32V, 320V, 600V, $\pm(2.0\%+4\text{dgt})$
DC Current Ranges	320 μ A, 3200 μ A, 32mA, 320mA, 10A, $\pm(3.0\%+3\text{dgt})$
AC Current Ranges	320 μ A, 3200 μ A, 32mA, 320mA, 10A, $\pm(3.5\%+4\text{dgt})$
Resistance Ranges	320, 3.2K, 32K, 320K, 3.2M, 32M Ω , $\pm(1.5\sim 5\%+5\text{dgt})$
Overload protection	500V for R, diode, continuity; 0.5A and 10A fuses
Diode Test, Transistor Test(hFE), Continuity Beeper.	
General	
Power Requirement	9V Battery x1
Dimensions	147x70x39mm (5.8"x2.8"x1.5")
Weight	12.9 Oz(370g)
Accessories	Test leads, holster, battery and owners manual

Analog Multimeter



- AC/DC voltage
- DC current
- Resistance up to 20M Ω
- Transistor check
- Audible continuity
- Fuse protection on all ranges
- hFE and dB measurement
- Built in tilt stand



AMM-110

DC Voltage Ranges	0-0.1V-0.5V-2.5V-10V-50V-250V-1000V, $\pm 3\%$ FSD
AC Voltage Ranges	0-10V-50V-250V-1000V, $\pm 4\%$ FSD
DC Current Ranges	0-50 μ A-2.5mA-25mA-0.25A, $\pm 3\%$ FSD
Resistance Ranges	0-20M Ω , $\pm 3\%$ FSD
Transistor Test Ranges	0-150 μ A, 0-1.5mA, 0-15mA, 0-150mA, $\pm 5\%$ FSD
FSD: Full Scale Display	
General	
Power Requirement	9V Battery x1 and "AA" Battery x3
Dimensions	36x100x150mm (1.4"x3.9"x5.9")
Weight	10.4 Oz (300g)
Accessories	Test leads and owners manual.

Pocket DMM + Bargraph



- 3200 Count display
- Auto power off
- Analog bargraph
- Low battery indicator
- Data hold
- Range hold



DMM-113

DC Voltage Ranges	300mV, 3V, 30V, 300V, 450V, $\pm(2\%+2\text{dgt})$
AC Voltage Ranges	3V, 30V, 300V, 450V, $\pm(4\%+5\text{dgt})$
Resistance Ranges	300 Ω , 3K, 30K, 300K, 3M, 30M Ω , $\pm(2\sim 10\%+5\text{dgt})$
Overload protection	450VDC or AC RMS for DC/AC Voltage, R, diode, continuity
Diode Test	Current: Approx. 0.6mA($V_f=0.6V$) , Continuity Beeper: less than 20 Ω
General	
Power Requirement	1.5V Button-type Battery x2
Dimensions	111x56x10mm (4.37"x2.2"x0.39")
Weight	3.5 Oz(100g)
Accessories	Test leads, holster, battery and owners manual



DMM-129

20A

Autoranging + AC True RMS

- 3 3/4 Digits, 3,999 Count
- AC True RMS
- Auto/Manual range
- 42 Segment analog bar graph
- Data Hold/Max-Min memory
- Relative mode
- Capacitance measurement
- Overload protection
- Frequency measurement
- Audible continuity check
- Diode test
- 30 Minute auto power off
- 20Amp Range measurement
- Double fuse protection (0.4A, 20A)
- With holster

DC Voltage Ranges	400mV, 4V, 40V, 400V, 1000V, $\pm(0.3\%+3\text{dpts})$
AC Voltage Ranges	400mV, 4V, 40V, 400V, 750V, $\pm(2\%+7\text{dpts})$
DC Current Ranges	40mA, 400mA, 20A, $\pm(1\%+5\text{dpts})$
AC Current Ranges	40mA, 400mA, 20A, $\pm(1.5\%+5\text{dpts})$
Resistance Ranges	400 Ω , 4K Ω , 40K Ω , 400K Ω , 4M Ω , 40M Ω , $\pm(1\%+2\text{dpts})$
Capacitance Range	4nF, 40nF, 400nF, 4 μ F, 40 μ F, $\pm(2\%+5\text{dpts})$
Frequency Range	100, 1K, 10K, 100K, 600KHz, $\pm(0.5\%+2\text{dpts})$
Overload protection	450VDC or AC RMS for DC/AC Voltage, R, diode, continuity
*Diode Test * Continuity Test	
Genera	
Power Requirement	Dual 1.5V No.4 battery
Dimensions	32x82x176mm (1.2"x3.2"x6.9")
Weight	13.9 Oz(395g)
Accessories	Test leads, holster, battery and owners manual

Remarks: DC/AC Voltage ranges are limited to 600V for CE. LVD. regulation, but actually DC 1000V & AC 750V are measurable.

High Voltage Test Probe



HV-40

Connect to any digital multimeter with industry standard jacks to measure up to 40K VDC or peak AC or 28KV rms AC.

Max. Working Voltage	40KV DC or Peak AC 28KV rms AC
Accuracy	DC Volts: $\pm 1\%$ (1KV to 20KV); $\pm 2\%$ (20KV to 40KV)
AC Volts	Typically 5% at 60Hz
Division Ratio	1000: 1
Input Resistance	Approx. 1000M Ω
Cable length	1 Meter

AC/ DC mA Current Clamp



CA-60



- This miniature clamp meter features two hall effect sensors
- For use with any multimeter with 200mV or/and 2V ranges for direct readout input impedance of at least 10K Ω
- High conversion factor for low DC and AC mA measurement
- With the small jaw size it can fit into tight space in circuit panel or wire bundle to take the reading
- The high frequency response at 20KHz is useful for waveform monitoring on an oscilloscope
- Zero adjustment is made easy by just pushing the ZERO button
- It is best for locating small signal, industrial control, battery leakage, and automotive usage
- Able to work with oscilloscope by using optional accessory CA-06 (BNC maleto dual binding post)

Measurement range	60 mA DC or AC
Accuracy	DCA: $\pm 1.5\%$ ACA: $\pm 2\%$ (40Hz ~ 2KHz) ACA: $\pm 4\%$ (2K ~ 10KHz) ACA: $\pm 6\%$ (10K ~ 20KHz)
Frequency Response (AC)	50Hz to 20KHz
Transformer ratio	10:1, 100:1 (1 mV/10mA or 1 mV/100mA conversion)
Output	1mV/ 10mA, 1mV/ 100mA
Input Resistance	minimum 10K Ω
Conductor jaw opening capability	9mm 3/8", fits tight space
General	
Power Requirement	9V Battery x1
Dimensions	178x70x33mm (7"x2.75"x1.3")
Weight	11 Oz. (290g)
Accessories	Battery, owners manual
Safety Design	meet IEC 100-1, IEC 1010-2-032 CE

LCR Meter



CE
EMC-LVD
LCR-610

- L.C.R. 3-function measurement
- 1% Basic accuracy
- High resolution 0.1μH, 0.1pF and 1mΩ
- 0.1μH to 200H inductance measurement
- 1mΩ to 20MΩ resistance measurement
- Dissipation factor measurement
- Zero adjustment
- The test lead TL-06 (Option) is specially designed for measuring SMD (Surface mount device) resistor, capacitor and inductor

Capacitance Ranges	200pF, 2nF, 20nF, 200nF, 2μF, 20μF, 200μF, 2mF, 20mF, 9 ranges
	Resolution: 0.1pF- 10μF . Accuracy 200pF-200μF 1%+2dgt, 2mF-20mF 2%+2dgt
Inductance Ranges	200μH, 2mH, 20mH, 200mH, 2H, 20H, 200H, 7 ranges
	Resolution: 0.1μH - 100mH, Basic Accuracy: 3%+2 dgt
Resistance Ranges	2Ω, 20Ω, 200Ω, 2KΩ, 20KΩ, 200KΩ, 2MΩ, 20MΩ, 8 ranges
	Resolution: 0.1mΩ - 10KΩ, Basic Accuracy: 2%+2dgt
General	Power requirements: 9V battery,
	Dimensions: 175x87x35mm (6.8"x 3.4"x1.37")
	Weights: 12.2 Oz(350g) Comes complete with test leads, battery and owners manual

Dual Display Auto-Ranging



RS-232
CE
EMC-LVD
LCR-612

- Basic accuracy: 0.5% for Resistance; 0.7% for Inductance, Capacitance
- Dual displays provide quick tested results readouts, with L.C.R. display values up to 19999 counts and Q.D.R. display values up to 9999 counts (Auto range)
- Excellent resolutions: Resistance up to 0.001W, Inductance Capacitance up to 0.1μH/0.1pF
- Provided up to 4 testing parameters: Ls+(Q,D,Rs), Lp+(Q,D,Rp); Cs+(Q,D,Rs), Cp+(Q,D,Rp)
- Auto-Power Off function
- Fuse detection function: To inform that the fuse is open or damaged
- External DC adapter functions

LCR Test Lead



TL-06

- The test lead TL-06 (Option) is specially designed for measuring SMD (Surface mount device) resistor, capacitor and inductor

Capacitance Ranges	8 Ranges	1KHz Accuracy	120Hz Accuracy	Resistance Ranges	7 Ranges 1KHz/120Hz Accuracy
	20mF	Nil	± (5.0 %+5 counts)/(DF<0.1)		± (5.0 %+5 counts)/(DF<0.1)
2000μF	± (5.0 %+5 counts)/(DF<0.1)	± (1.0 %+5 counts)/(DF<0.1)	± (1.0 %+5 counts)/(DF<0.1)	2000KΩ	± (0.5% + 5 counts)
200μF	± (1.0 %+5 counts)/(DF<0.5)	± (0.7 %+3 counts)/(DF<0.5)	± (0.7 %+3 counts)/(DF<0.5)	200KΩ	± (0.5% + 3 counts)
20μF	± (0.7 %+3 counts)/(DF<0.5)	± (0.7 %+3 counts)/(DF<0.5)	± (0.7 %+3 counts)/(DF<0.5)	20KΩ	± (0.5% + 3 counts)
2000nF	± (0.7 %+3 counts)/(DF<0.5)	± (0.7 %+3 counts)/(DF<0.5)	± (0.7 %+3 counts)/(DF<0.5)	2000KΩ	± (0.5% + 5 counts)
200nF	± (0.7 %+3 counts)/(DF<0.5)	± (0.7 %+5 counts)/(DF<0.5)	± (0.7 %+5 counts)/(DF<0.5)	200KΩ	± (0.8% + 5 counts)
20nF	± (0.7 %+5 counts)/(DF<0.5)	± (1.0 %+5 counts)/(DF<0.1)	± (1.0 %+5 counts)/(DF<0.1)	20Ω	± (1.2% + 8 counts)
2000pF	± (1.0 %+5 counts)/(DF<0.1)	Nil	Nil	Resolution up to 0.001Ω	
Resolution: up to 0.1 pF				Parameter Measurement	Ls+(Q,D,Rs), Lp+(Q,D,Rp); Cs+(Q,D,Rs), Cp+(Q,D,Rp)
Inductance Ranges	8 Ranges	1KHz Accuracy	120Hz Accuracy	Overload	"OL" is display
	10000H	Nil	No specified	Range Mode	Auto and Manual
	2000H	No specified	± (1.0%+5 counts)	Test Frequency	1KHz and 120Hz
	200H	± (1.0%+5 counts)	± (0.7% + 5 counts)	Measurement rate	Approx. 1 time per second, nominal
	20H	± (0.7 %+5 counts)	± (0.7%+5 counts)	General	
	2000mH	± (0.7 %+5 counts)	± (0.7%+5 counts)	Power Requirement	(1), Single Standard 9V battery (NEDA 1604, IEC 6F22 006P) (2), External DC Adapter 12Vmin to 15Vmax / 50mA. (Optional)
	200mH	± (0.7 %+5 counts)	± (1.0%+5 counts)	Auto Power Off	The meter key switch inactive for more than 5 minutes
	20mH	± (1.2%+5 counts)	± (2.0%+5 counts)	Overload Protection	0.1A/250V fast below fuse
2000μH	± (2.0%+5 counts)	Nil	Dimensions (HxWxD)	192x91x52.5mm (7.55"x3.58"x2.1")	
Resolution: up to 0.1 μH				Weight	365g. (including accessories)
				Accessories	Comes complete with leads, battery, software disk and owners manual

TECPEN Digital Clamp-on Meters

1000A AC Amp + 2000MΩ



EMC-LVD

DCM-2600

- 3 1/2 Digit display
- AC current up to 1000A
- AC voltage up to 750V
- DC voltage up to 1000V
- Resistance up to 2000MΩ
- Display hold function
- Audible continuity test
- Overrange indication
- Maximum recording mode
- Confirm to the IEC-1010-1,
- UL1244/UL3111, CE standard
- Hand guard protection
- Carrying case

DC Voltage Ranges	1000V, ± (0.5%+1dgt)
AC Voltage Ranges	750V, ± (1.2%+4dgts)
AC Current Ranges	200A, 1000A, ± (1.5%+5dgts)
Resistance Ranges	200Ω, 20KΩ, 20MΩ, 2000MΩ, ± (1%+3dgts)
Continuity Test	Audible indication 200Ω, Threshold <75Ω
General	
Power Requirement	9V battery x1
Dimensions	275x90x43mm (10.8"x3.6"x1.7")
Weight	17 Oz (482g)
Accessories	Test leads, soft carrying case, battery and owners manual.

conductor jaw size : 57mm

1000A AC/DC Amp + Frequency



EMC-LVD

DCM-2605

- 3 1/2 Digit display
- AC/DC current up to 1000A
- AC voltage up to 750V
- DC voltage up to 1000V
- Resistance up to 200KΩ
- Frequency up to 40KHz
- Display hold function
- Audible continuity test
- Over range indication
- Maximum recording mode
- Confirm to the IEC-1010-1
- UL 1244/UL3111, CE standard
- Hand guard protection
- Carrying case

DC Voltage Ranges	1000V, ± (0.5%+1dgt)
AC Voltage Ranges	200V, 750V, ± (1.5%+4dgts)
AC Current Ranges	200A, 1000A ± (1.5%+5dgts)
DC Current Ranges	200A, 1000A ± (1.5%+5dgts)
Resistance Range	200Ω, 200KΩ ± (1.0%+3dgts)
Continuity Test	Audible indication less than 30Ω
General	
Power Requirement	9V Battery x1
Dimensions	277x102x49mm (10.9"x4.0"x1.9")
Weight	18.9 Oz (540g)
Accessories	Test leads; soft carrying case, battery and owner manual.

conductor jaw size : 57mm

1000 Amp AC/DC + TRUE-RMS



EMC-LVD

DCM-2606

- 3 3/4 Digit display with bargraph
- AC/DC current up to 1000A
- AC/DC voltage up to 1000V
- Display hold function
- Audible continuity test
- Overrange indication
- Frequency up to 400KHz
- Capacitance measurement
- Resistance up to 40MΩ
- Relative mode to read offset values (Zero ΔKey)
- Peak hold for transient measurements
- Max/Min recording mode
- Confirm to the IEC-1010-1,
- UL1244/UL3111, CE standard
- Hand guard protection
- True-RMS reading
- Diode test
- Carrying case

DC Voltage Ranges	400mV, 4V, 40V, 400V, 1000V, ± (0.5%+1dgt)
AC Voltage Ranges	True RMS 400mV, 4V, 40V, 400V, 750V, ± (1.5%+4dgts)
AC Current Ranges	True RMS 400A, 1000A, ± (1.5%+5dgts)
DC Current Ranges	400A, 1000A, ± (1.5%+5dgts)
Resistance Ranges	400Ω, 4KΩ, 40KΩ, 400KΩ, 4MΩ, 40MΩ, ± (1%+2dgts)
Frequency Ranges	100, 1K, 10K, 100K, 400KHz, ± (0.5%+3dgts)
Continuity Test	Audible indication 400Ω, Threshold <40Ω
General	
Power Requirement	9V Battery x1
Dimensions	275x90x43mm (10.8"x3.6"x1.7")
Weight	17 Oz (482g)
Accessories	Test leads, soft carrying case, battery and owners manual.

conductor jaw size : 57mm

TECPEL Digital Clamp-on Meters



DCM-2608

1500A AC/2000A DC + Bar Graph

- 3 1/2 digit display
- AC current up to 1500A; DC current up to 2000A
- AC voltage up to 750V; DC voltage up to 1000V
- Resistance up to 40MΩ
- Frequency up to 400kHz
- Capacitance measurement
- Audible continuity test / Diode test
- Over range indication
- Max/Min recording mode
- Relative mode to read offset values (Zero Δ key)
- Peak hold for transient measurement
- Confirm to the IEC-1010-1
- UL 1244/UL3111, CE standard
- Hand guard protection
- Carrying case

DC Voltage Ranges:	400mV, 4V, 40V, 400V, 1000V, ±(0.5%+1dgt)
AC Voltage Ranges:	400mV, 4V, 40V, 400V, 750V, ±(1.5%+4dgts)
AC Current Ranges:	200A, 1500A ±(1.5~5%+5dgts)
DC Current Ranges:	200A, 2000A ±(1.5~5%+5dgts)
Resistance Range:	400Ω, 4kΩ, 40kΩ, 400kΩ, 4000kΩ, 40MΩ(1.0%+4dgts)
Continuity Test:	Audible indication <40Ω / Diode Test 0.6mA . approx.
General	
Power Requirement:	One 9V battery
Dimensions:	10.9"x4.0"x1.9"(277x102x49mm)
Weight:	18.9oz/540g
Accessories:	Test leads; soft carrying case, battery and owner manual.

conductor jaw size : 57mm



DCM-036

300A AC Amp + Frequency

- 3 1/2 Digit, 1999 Count display
- AC current up to 300A
- AC/DC Voltage up to 600V
- Resistance up to 200KΩ
- Max/Data hold function
- Audible continuity test
- Overload protection
- Confirm to IEC-1010-1 and IEC1010-2-031, CATIII 600V
- Hand guard protection.

DC Voltage Ranges	20V, 600V ± (1.0%+1dgt)
AC Voltage Ranges	200V, 600V ± 2.0%+4dgts) 50~500Hz
AC Current Ranges	20A, 200A, 300A ± (3.0%rdg+5dgts) 50~60Hz
Resistance Ranges	200Ω, 200KΩ ± (1.2%+4dgts)
Frequency Ranges	2K, 40K(10KHz~40KHz) ± (0.1%+3dgts)
Continuity Test	Audible Indication: < 100Ω; Diode test current: 1.0mA
General	
Power Requirement	9V Battery x1
Dimensions	177x45x43mm (6.9"x1.8"x1.7")
Weight	7 Oz (200g)
Accessories	Test leads, carrying case, battery and owners manual

conductor jaw size : 23mm



DCM-037

Auto ranging + Bar Graph

- 3 3/4 Digit, 3400 Count display
- Analog bar graph.
- AC current up to 300A
- AC/DC Voltage up to 600V
- Resistance up to 34MΩ
- Data hold function
- Audible continuity test
- Overload protection
- Confirm to IEC-1010-1 and IEC1010-2-031, CATIII 600V
- Hand guard protection.

DC Voltage Ranges	340mV, 3.4V, 34V, 340V, 600V ± (1.0%+1dgt)
AC Voltage Ranges	340mV, 3.4V, 34V, 340V, 600V ± (2.0%+4dgts) 50~500Hz
AC Current Ranges	34A, 300A ± (3.0%rdg+5dgts) 50~60Hz
Resistance Ranges	340Ω, 3.4KΩ, 34K200Ω, 340KΩ, 3.4MΩ, 34MΩ ± (1.5~ 4.0%+4dgts)
Continuity Test	Audible Indication: < 40Ω; Diode test current: 1.0mA
General	
Power Requirement	9V Battery x1
Dimensions	177x45x43mm (6.9"x1.8"x1.7")
Weight	7 Oz (200g)
Accessories	Test leads, carrying case, battery and owners manual

conductor jaw size : 23mm

Clamp Meter / Leakage Current Tester

200A AC/DC Amp Clamp Meter

- ❑ 3 3/4 Digits 4,000 counts
- ❑ High resolution to 10mA AC/DC
- ❑ One touch auto zero for DC current measurements
- ❑ Voltage, Resistance, and Frequency
- ❑ Fast 40 segment bar graph
- ❑ Min/Max, Data hold, Auto power off
- ❑ Overload protection 600V for Ω measurement



CE
EMC-LVD
DCM-039

DC Voltage Ranges	0~400V, 0.1V, $\pm 0.1V \pm 1.5\% \pm 2dgt$ s
AC Voltage Ranges	0~400V, 0.1V, $\pm 1.0\% \pm 2dgt$ s
DC Current Ranges	0~40A 10mA $\pm 1.0\% \pm 2dgt$ s 0 to 150A 100mA $\pm 1.0\% \pm 2dgt$ s 150 to 200A 100mA $\pm 2.2\% \pm 2dgt$ s
AC Current Ranges	0~40A 10mA $\pm 1.0\% \pm 3dgt$ s 0 to 150A 100mA $\pm 1.0\% \pm 3dgt$ s 150 to 200A 100mA $\pm 2.2\% \pm 3dgt$ s
Resistance Ranges	40 to 400 Ω 0.1 Ω $\pm 1.0\% \pm 2dgt$ s Beep <38 Ω 600V AC
Frequency Ranges	100 to 10k 0.01Hz $\pm 0.5\% \pm 2dgt$ s Sensitivity 10V, 600VAC protection
General	
Power Requirement	1.5V SUM-3 Battery x2
Dimensions	210x64x36 mm (8.3"x2.5"x1.4")
Weight	6.7 Oz (190g)
Accessories	Test leads, Soft carrying case, battery, owners manual

conductor jaw size : 23mm

Leakage Current Tester

- ❑ For leakage/ground currents measurement
- ❑ 3 3/4 Digits, 4000 count LCD display
- ❑ High resolution up to 10 μ A with fast bargraph (20 times/sec)
- ❑ Shielded transformer jaw minimizes the effect of stray magnetic fields
- ❑ Selectable 50/60Hz filter circuit to eliminate high frequency noise and harmonics
- ❑ Max/Min, data hold functions, and relative measurement
- ❑ Continuity measurements.
- ❑ 600V overload protection for Ω measurement
- ❑ Five ranges (40mA, 400mA, 4A, 40A, 60A) 30mm (1.2") Jaw diameter



CE
EMC-LVD
DCM-040

AC Current: Accuracy specified at 25°C

Range	Resolution	50/60 Hz (40 - 1KHz)	Wide
0-40mA	10 μ A	$\pm 1.0\% \pm 3dgt$ s	$\pm 2.0\% \pm 5dgt$ s
0-400mA	100 μ A	$\pm 1.0\% \pm 3dgt$ s	$\pm 2.0\% \pm 5dgt$ s
0-4A	1mA	$\pm 1.0\% \pm 3dgt$ s	$\pm 2.0\% \pm 5dgt$ s
0-40A	10mA	$\pm 1.0\% \pm 3dgt$ s	$\pm 2.0\% \pm 5dgt$ s
0-60A(0-50A)	100mA	$\pm 1.5\% \pm 3dgt$ s	$\pm 3.0\% \pm 5dgt$ s
60A(50 - 60A) *	100mA	$\pm 3.0\% \pm 5dgt$ s	$\pm 3.5\% \pm 5dgt$ s

* Displays over 60A are possible but the accuracy of such measurements is not specified

AC Voltage:(Input Impedance: 10M Ω)

Range	Resolution	50/60 Hz (40 - 1KHz)	Overload Protection
400V	0.1V	$\pm 1.5\% \pm 2dgt$ s	$\pm 2.0\% \pm 4dgt$ s AC 800V

Resistance (Ω) and Continuity: (open voltage 0.4V)

Range	Resolution	Accuracy	Beeping	OL Protection
0-400 Ω	0.1 Ω	$\pm 1.0\% \pm 2dgt$ s	< 38.0 Ω	AC 600V

General	
Power Requirement	1.5V SUM-3 Battery x3
Dimensions	210x64x36 mm (8.3"x2.5"x1.4")
Weight	6.7 Oz (190g)
Accessories	Test leads, Soft carrying case, battery, owners manual

conductor jaw size : 30mm

TECPEL Clamp-on Meters/Insulation Meter

1000 Amp AC/DC Power Meter



- ❑ AC/DC Current up to 1000Amp
- ❑ Power, Current, Voltage, frequency and resistance measurement
- ❑ Read true power ($V \times A \cos\theta$), apparent power (VA), reactive power ($V \times A \sin\theta$) and power factor ($\cos\theta$)
- ❑ Surge mode for inrush current measurement
- ❑ Data hold, Max/Min and crest factor reading
- ❑ 0.8", 3500 count digital display with annunciators
- ❑ Conductor jaw size: 55mm \varnothing



DPM-035

DC Current Ranges	35A, 350A, 1000A, $\pm(1\%+5\sim 15\text{dpts})$
AC Current Ranges	35A, 350A, 1000A, $\pm(1\%+5\sim 15\text{dpts})$
Active Power($V \times A \times \cos\theta$) Ranges	3.5KW, 35KW, 350KW, $\pm(2\%+5\text{dpts})$
Apparent Power($V \times A$) Ranges	3.5K, 35K, 350KVar, $\pm(2\%+5\text{dpts})$
Reactive Power($V \times A \times \sin\theta$) Ranges	3.5K, 35K, 350KVar, $\pm(2\%+5\text{dpts})$
Power Factor($\cos\theta$) Ranges	3.5K, 35K, 350KW, $\pm(3\%+5\text{dpts})$
Crest Factor	Ranges 1-6, $\pm(3\%+2\text{dpts})$
AC Voltage(45- 400Hz) Ranges	350V, 600V, $\pm(1\%+5\text{dpts})$
DC Voltage Ranges	350V, 600V, $\pm(1\%+5\text{dpts})$
Surge Mode	Ranges AC Current, $\pm(3\%+5\text{dpts})$
Frequency	Ranges 10Hz-1KHz $\pm 0.5\%$
Resistance	Ranges 0-3.5K Ω $\pm 1\%$
Audible Continuity Check	Threshold <30 Ω
General	
Power Requirement	AAA batteries x4
Dimensions	85x270x43mm (3.38"x10.6"x1.7")
Weight	24.6 Oz(700g)
Accessories	Test leads, soft carrying case and owners manual

1000 Amp AC/DC Clamp Adapter



- ❑ 1000A AC or DC current clamp
- ❑ Measure current without disconnecting circuit under test
- ❑ Measure to 1000A DC or AC
- ❑ Outputs 1mV per Amp, operates on 2V range of any DMM



CA-1000D

DC Current Range	0-1000A $\pm(1.5\sim 3.5\%+3A)$
AC Current Range	0-1000A $\pm(1.5\sim 3.5\%+3A)$
Output	0~1V rms or DC with $\geq 1\text{M}\Omega$ input impedance
Transfer Rate	1mV/1A
Overload Protection	1200A for 60 seconds maximum.
General	
Jaws Opening Capability	57mm Conductor, 70x18mm bus bars
Power requirement	9V Battery x1
Dimensions	244x100x40mm (9.6x3.9x1.6")

Megohm /Insulation Meter



- ❑ Measure insulation resistance up to 2000M Ω
- ❑ 1000V pulse to test insulation
- ❑ 3 1/2 Digit LCD back light display
- ❑ Auto data hold function after releasing MEAS button
- ❑ Auto power off function
- ❑ Portability and simplicity for one hand operation
- ❑ Valox housing to withstand accidental drops



DIM-570

Measurement Ranges	20M Ω , 2000M Ω
Accuracy	20M Ω $\pm(2.0\% \text{ rdg} + 2 \text{ dpts})$, 2000M Ω < 500M Ω $\pm(4.0\% \text{ rdg} + 2 \text{ dpts})$, $\pm(5.0\% \text{ rdg} + 2 \text{ dpts})$
Test Voltage	1000V DC approx.
Resolution	10K Ω
Zero	Automatic
Polarity	Automatic positive implied, negative polarity indication
General	
Power Requirement General	
Power Requirement	1.5V(AAA size) Batteries x4
Dimensions	170x44x40mm (6.7"x1.7"x1.6")
Weight	6.3 Oz (180g)
Accessories	Test leads, Soft carrying case, batteries, owners manual

Insulation Tester/Earth Resistance Tester

Digital Insulation Tester



DIM-571

- ❑ DIM 571 is an LCD Indicated instruments for insulation (M Ohm), Continuity (OHM) and AC Voltage
- ❑ Three Insulation test voltage (DCV): 250V, 500V, 1,000V
- ❑ Large LCD display(68 x 34mm)
- ❑ Test Insulation at rated voltage into 1 1mA load
- ❑ 200mA short circuit continuity current
- ❑ Timer for test functions (3 ~ 5 minutes)
- ❑ Data Hold , Auto power off function
- ❑ Automatic circuit discharge
- ❑ Fuse protection
- ❑ EN61010 CAT III 600V, . BS 16" Edition



Insulation Resistance	
Test Range(DCV)	250V, 500V, 1,000V
Measuring Ranges (Auto)	20, 200, 2000MΩ
Resolution	0.01, 0.1., 1MΩ
Accuracy	20MΩ:± (1.5%rdg+ 5dgt) 200MΩ: ± (2.5% rdg+3dgt) 2000MΩ: ± (5% rdg+5dgt)
Continuity Test	
Measuring Ranges(Auto)	20, 200, 2000Ω ± (1.5% rdg+3dgt)
Resolution	0.01, 0.1 , 1Ω
AC Voltage	
AC Voltage Range	0~ 600V ± (1.5% rdg+3dgt)
Resolution	1V
Line Frequency	40~120Hz
General	
LCD display	3 1/2 digits (2000 counts)
Over display	1
Dimension	205x90x55mm (8.1"x 3.5"x 2.2")
Weight	23 Oz. (600g)
Power Source	1.5V x 6 type AA
Accessories	Test leads, owners manual, fuse(0.5A,250V). carrying case

Earth Resistance Tester



ERT-580

- ❑ ERT 580 Earth resistance tester
- ❑ Measures down to 0.01Ω
- ❑ 3 Earth Ranges: 20, 200, 2000Ω
- ❑ One test current of 2 mA RMS
- ❑ Indication if resistance of auxiliary spikes resistance is within range
- ❑ Two or three-terminal measurement
- ❑ Three-terminal measurement for earth electrode testing
- ❑ Large LCD display
- ❑ Data hold function
- ❑ Calibration performed with supplied test leads (3 T fully compensated)
- ❑ Measure earth voltage up to 200V AC
- ❑ Simple to use and lower power
- ❑ Open loop indication with " 1 " (MSD) on display and LED Light off
- ❑ Lightweight, robust and compact design
- ❑ Low Battery Indication
- ❑ " O-Ring" Sealed case for outdoor usage and better protection
- ❑ Standard accssories for 3T and 2T



Earth Resistance ranges	0~ 19.99Ω, 0~199.9Ω, 0~1999Ω
Accuracy of earth resistance	1.5% ± 2dgt
Test Current(Reversing DC)	2mA
AC voltage range (Sine 40-60Hz)	0~199.9V Accuracy 1% ± 1dgt
Maximum output voltage(E-C)	0~ 80V
General	
LCD display	3 1/2 digits (2000 counts)
Over display	1
Dimension	205 x 90 x 55mm (8.1"x 3.5"x 2.2")
Weight	23 Oz. (600g)
Power Source	1.5V x 6 type AA
Safety	Meet Bs7671, 7430., 6651, IEC364, NFC15-100, SABS0142, VDE0413
Accessories	Color-coded test leads, owners manual, carrying case

TECPEL Phase Sequence Indicator/Impedance PSC Tester

Phase Sequence Indicator



PHS-863



- ❑ Two functions in one unit including open phase and phase sequence
- ❑ Large size alligator clips: able to clip on switch-board terminals easily
- ❑ Identify 3 phase sequence and open phase check
- ❑ Applications: This model is ideal for installing conveyor lines, pump systems and interconnected drivers
- ❑ Safety Approval: CE marks EN 6101-1 CAT. III. EN 61010-2-031

Input Voltage	100~600V AC
Frequency Range	45~70Hz
Circuit Structure	All electronic (not mechanical)
AC Power Consumption	Approx. 7mA per phase rotation field indicator
Dimensions	102x78x32.5mm (4.0"x3.1"x1.3")
Weigh	8 Oz (228g)
Accessories	Soft carrying bag, Owners manual

Digital Loop impedance PSC tester



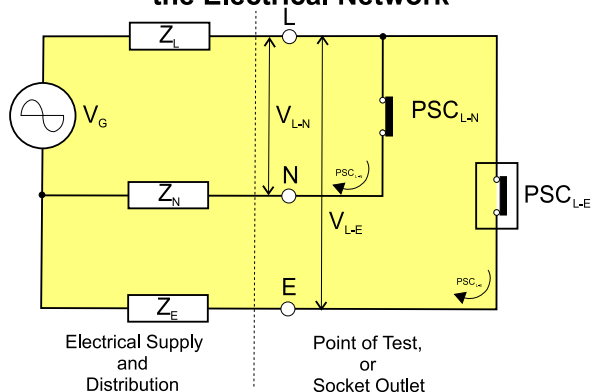
LP-2811



- ❑ Display mains voltage, scroll through menus
- ❑ Check wiring integrity (LEDs and display)
- ❑ Single button operation
- ❑ Auto power off/Auto-ranging
- ❑ Microprocessor controlled
- ❑ Combined prospective short circuit, PSC and Loop tester
- ❑ Loop test for L-E, L-N and PSC
- ❑ Voltage test L-N and L-E
- ❑ Enable analysis of consistent components in L-E and L-N loops giving resistance of earth, neutral wire, live wire and transformer winding
- ❑ IEC 1010 CAT. III

Loop impedance Range L-E, L-N	20/200/2000Ω (auto-Ranging)
Loop Impedance test current	12A at 230V/50Hz
Voltage measurement L-N, L-E	50 to 275V AC/50Hz or 60Hz
Earth Wire/Path return resistance	20/200/2000Ω (auto-ranging)
Neutral wire return resistance	20/200/ 2000Ω (auto-ranging)
Line wire return resistance & Transformer Windings	20/200/2000Ω (auto-ranging)
PSC Current(L-N) Max	3KA
Typical accuracy	A. Loop impedance: ± 5% of Full scale ± 2digits B. PSC current: ± 15% of Full scale ± 5digits C. Voltage: ± 1% of Full scale ± 1dgt
Operating voltage	50~275V AC ± 20% /50Hz
Best performance at rated voltage	230V AC ± 20% max. 10A
Operating Temp. and Humidity	-10°C~ +40°C, Max. 80% R.H.
General	
Power Requirement	8 x AA batteries
Dimensions	120x170x95mm (4.7"x6.7"x3.8")
Weight	24 Oz (635g)
Accessories	AC power Cord, owners manual

Fault Finding and Analyzing the Electrical Network



LP-2811



Personal Safety High Voltage Detector



CE
EMC-LVD

SVD-588

- Non Contact AC detector
- Detect 44KV from up to 30ft (10m) away
- Sound annunciator (Buzzer)
- Ultra High bright LED indication
- Pocket and belt clip able to attach to a belt
- Self test function to ensure pooper operation
- Low battery indication
- Water proof (Sealed to IP65) suitable for indoor and outdoor use

Application:

- Detect residual or induced high voltages for Workers safety
- Safely warning high voltage source while approaching it
- Check and detect live high voltage cables

Detection Frequency	40 to 70Hz
Detection	Detects voltage from 240V to 44KV
(Depends on distance)	Recommend use above 5KV
Alert Indicators	Audible buzzer and flashing LED
Power supply	9V alkaline battery with one year operation
Low battery indication	Beeper sound every 5 seconds
Operating temp. and Humidity	-15~55°C (5~ 130°F), 0~93% RH@ 40°C
General	
Power Requirement	9V alkaline battery for one year operation
Dimensions	115x67x30mm (4.5"x 2.6"x1.2")
Weight	5.1 Oz (146g)
Accessories	Soft carrying case, battery, neck strap, owners manual



Cable Tracer



CE
EMC-LVD

CT-581

Amplifier Probe (CT-581A)

- The amplifier probe identifies and traces wires or cables within a group

Without damaging the insulation

- Works with any Tone Generator to identify wires
- Adjustable volume to suit work environment
- A plug receptacle for headset or hand set
- Work with 9V battery and come with soft carrying case

Tone Generator (CT-581G)

- A great tool for locating and identifying cable pairs or individual conductors.
- Serves as a continuity and polarity tester
- A three-colored LED display for test result.

TECPEL Digital Thermometers

Single Input (DTM 305B)/Dual Inputs (DTM 307B)



DTM-305B



DTM-307B



- Thermocouple Probe Connection Detector
Shown by Red LED
- 50°C ~ 1300°C (-58°F ~ 2000°F)
- 3 1/2 Digit LCD display
- K-type thermocouple
- Reading hold °C of °F annunciators
- Single thermocouple input (DTM-305B)
- Dual thermocouple input (DTM-307B)
- Differential temperature T1-T2 (DTM-307B)
- Switchable resolution 0.1°/1.0°
- Front panel offset adjustment
- Automatic low battery indication
- Maximum record
- Over range indication

Measurement range	-50°C to 1300°C (-58°F to 2000°F)
Accuracy	
-50°C to 1000°C	± (0.3% rdg + 1°C)
1000°C to 1300°C	± (0.5% rdg + 1°C)
-58°F to 2000°F	± (0.3% rdg + 2°F)
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	1°C or 1°F (or 0.1°C or 0.1°F)
Sensor	K-type thermocouple
Sampling rate	3 times/per second
General	
Power requirement	9V Battery x1
Dimensions	147x70x39mm (5.8"x2.8"x1.5")
Weight	12.2 Oz (350g)
Accessories	TPK-01x1 (DTM-305B), TPK-01x 2(DTM-307B), holster and owners manual

Single Input (DTM 305)/Dual Inputs (DTM 307)



DTM-305



DTM-307



- 50°C ~ 1300°C (-58°F ~ 2000°F)
- 3 1/2 Digit LCD display
- K-type thermocouple
- Reading hold °C of °F annunciators
- Single thermocouple input
- Switchable resolution 0.1°/1.0°
- Dual thermocouple input (DTM-307)
- Differential temperature (T1-T2) (DTM-307)
- Front panel offset adjustment
- Automatic low battery indication
- Maximum record
- Over range indication

Measurement range	-50°C to 1300°C (-58°F to 2000°F)
Accuracy	
-50°C to 1000°C	± (0.3% rdg + 1°C)
1000°C to 1300°C	± (0.5% rdg + 1°C)
-58°F to 2000°F	± (0.3% rdg + 2°F)
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	1°C or 1°F (or 0.1°C of 0.1°F under 199°C)
Sensor	K-type thermocouple
Sampling rate	3 times/per second
General	
Power requirement	9V Battery x1
Dimensions	147x70x39mm (5.8"x2.8"x1.5")
Weight	13.8 Oz (395g)
Accessories	TPK-01x1 (DTM-305), TPK-01 x 2 (DTM-307), holster and owners manual

DIGIPEL Digital Thermometers



RS-232



DTM-315

Single Input + Timer

- 200°C~1370°C (-328°F~2498°F)
- 4 Digit LCD display
- Timer function
- K-type thermocouple
- Reading hold °C or °F annunciators
- Single thermocouple input
- MAX. AVG. MIN. function
- Auto power off
- HOLD, ΔREL function
- Automatic low battery indication
- Overrange indication
- RS-232 cable and soft ware (SE300 option)

Measurement range	-200°C to 1370°C (-328°F to 2498°F)
Accuracy	
-200°C to 1370°C	± (0.5% rdg + 1°C) typical
-328°F to 2498°F	± (0.5% rdg + 1°F) typical
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	1°C or 1°F (-200°C~200°C, 0.1°C)
Sensor	K-type thermocouple
Sampling rate	2.5 Times/per second
General	
Power requirement	9V Battery x1
Dimensions	184x64x30mm (7.2"x2.5"x1.2")
Weight	7.4 Oz (210g)
Accessories	TPK-01x1, soft carrying case and owners manual



RS-232



DTM-316

Dual Input

- 200°C~1370°C (-328°F~2498°F)
- 4 Digit LCD display
- K-type thermocouple
- Function & unit sign display °C or °F annunciators
- Dual thermocouple input
- Differential temperature (T1-T2)
- MAX. AVG. MIN. function
- Auto power off
- HOLD, ΔREL function
- Automatic low battery indication
- Overrange indication
- RS-232 cable and software (SE300 option)

Measurement range	-200°C to 1370°C (-328°F to 2498°F)
Accuracy	
-200°C to 1370°C	± (0.5% rdg + 1°C) typical
-328°F to 2498°F	± (0.5% rdg + 1°F) typical
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	1°C or 1°F (-200°C~200°C, 0.1°C)
Sensor	K-type thermocouple
Sampling rate	2.5 Times/per second
General	
Power requirement	9V Battery x1
Dimensions	184x64x30mm (7.2"x2.5"x1.2")
Weight	7.4 Oz (210g)
Accessories	TPK-01x2, soft carrying case and owners manual



RS-232



DTM-506B

K/J/T/E/R/S/N-Type Dual Input Thermometer+ Datalogger

- T/C offset adjust
- Save measured data: 128 samples W/real-time data
- Data Logger: 16 sets, Maximum 1024 data capacity
- RS-232 interface, you can download data to a PC (optional software and USB cable)
- Dual input / Triple display
- T1, T2, T1-T2, Time and Memory No.
- K/J/T/E/R/S/N-types thermocouple selection
- REC, MAX, MIN, MAX-MIN, AVG, REL, HOLD function
- Resolution 0.1°C/1°C, 0.1°F/1°F
- Warning beeper with Hi/Lo setting
- TIME, Record interval, APO time setting
- Easy Reads Data with down and up key on meter
- Real time clock with calendar
- Selectable auto power off function
- Programmable Hi-Lo Limits W/mini-DIN output port
- DC ADAPTER: 12V
- Backlight
- 41/2 digital 20000 counts with triple display

Measurement range	K-type (0.1°C) -200°C to 1372°C, -328°F to 2501°F J-type (0.1°C) -210°C to 1050°C, -346°F to 1922°F T-type (0.1°C) -200°C to 400°C, -328°F to 752°F E-type (0.1°C) -210°C to 790°C, -346°F to 1454°F R-type (1°C) 0°C to 1767°C, 32°F to 3212°F S-type (1°C) 0°C to 1767°C, 32°F to 3212°F N-type (0.1°C) -50°C to 1300°C, -58°F to 2372°F
Accuracy	stated accuracy at 23°C±5°C, <75% R.H.
-210°C to 1767°C	± (0.05% rdg + 0.3°C) typical
-346°F to 3212°F	± (0.05%rdg + 1.6°F) typical
Temperature scale	Celsius or fahrenheit user-selectable
Resolution	0.1°C or 0.1°F Except R,S type,
Sensor	K/J/T/E/R/S/N-Types Thermocouple
Sampling rate	1 Times/per second
General	
Power requirement	9V Battery x1
Dimensions	195x92x53mm (7.7"x3.6"x2.1")
Weight	8.8 Oz (250g)
Accessories	TPK-01x2, rubber holster and owners manual RS232 cable and software disk

Digital Thermometers Data logger



RS-232
CE
EMC-LVD
DTM-317

Single Input + Data recorder

- 200°C~ 1370°C (-328°F~2498°F)
- Data Logging capacity 16,000 records
- 4 Digit LCD, Triple display
- Timer display
- Recording interval setup
- Reading hold °C or °F annunciators
- Single K-type thermocouple input
- MAX. MIN. function
- Auto power off
- Hold, ΔREL functions
- Automatic low battery indication
- High resolution 0.1°C, 0.1°F
- RS-232 Computer interface
- Real time Display

Measurement range	-200°C to 1370°C(-328°F to 2498°F)
Accuracy	
-200°C to 1370°C	± (0.5% rdg +1°C) typical
-328°F to 2498°F	± (0.5% rdg +1°F) typical
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	0.1°C or 0.1°F (200°C~1370°C, 1°C)
Sensor	K-type bead Thermocouple probe
Sampling rate	2.5 times/per second
Input protection	60V DC or 24V rms AC Maximum
General	
Power requirement	9V Battery x1
Dimensions	184x64x30mm (7.2"x2.5"x1.2")
Weight	7.4 Oz (210g)
Accessories	1 x TPK-01 probe, 9V battery, Deluxe carrying case, owners manual, RS-232 cable and software program



RS-232
CE
EMC-LVD
DTM-318

Dual Input + Data recorder

- 200°C~ 1370°C(-328°F~2498°F)
- Data Logging capacity 16,000 records
- 4 Digit LCD , Triple display
- Timer display button
- Recording interval set up
- Reading hold °C or °F annunciators
- Dual K-type thermocouple inputs
- MAX. MIN. function
- Auto power off
- Hold functions
- Automatic low battery indication
- High resolution 0.1°C, 0.1°F
- RS-232 Computer interface
- Real time Display

Measurement range	-200°C to 1370°C(-328°F to 2498°F)
Accuracy	
-200°C to 1370°C	± (0.5% rdg +1°C) typical
-328°F to 2498°F	± (0.5% rdg +1°F) typical
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	0.1°C or 0.1°F (200°C~1370°C, 1°C)
Sensor	K-type bead Thermocouple probe
Sampling rate	2.5 times/per second
Input protection	60V DC or 24V rms AC Maximum
General	
Power requirement	9V Battery x1
Dimensions	184x64x30mm (7.2"x2.5"x1.2")
Weight	7.4 Oz (210g)
Accessories	2 x TPK-01 probes, 9V battery, Deluxe carrying case, owners manual, RS-232 cable and software program.



RS-232
CE
EMC-LVD
DTM-319

Quad Input + Data recorder

- 200°C~ 1370°C (-328°F ~ 3498°F)
- Data Logging capacity 16,000 records per channel
- 4 Digit LCD display
- Timer function
- Reading hold °C or °F annunciators
- 4 K-type thermocouple inputs
- MAX. MIN. function
- Auto power off
- HOLD function
- Automatic low battery indication
- Overrange indication
- Real time Display




Real time display (DTM-317,318,319)

Measurement range	-200°C -1370°C (-328°F ~ 2498°F)
Accuracy	
-200°C to 200°C	± (0.2% rdg +1°C)
200°C to 400°C	± (0.5% rdg +1°C)
400°C to 1370°C	± (0.2% rdg +1°C)
-328°F to 200°F	± (0.5% rdg +1°F)
200°F to 200°F	± (0.2% rdg +1°F)
200°F to 2498°F	± (0.3% rdg +1°F)
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	0.1°C or 0.1°F (200°C~1370°C, 1°C)
Sensor	K-type bead Thermocouple probe
Sampling rate	3 seconds per testing circle
Input protection	60V DC or 24V rms AC Maximum
General specifications	
Power requirement	9V Battery x1
Dimensions	184x64x30mm (7.2"x2.5"x1.2")
Weight	7.4 Oz (210g)
Accessories	RS-232 cable and software for WINDOWS, Deluxe carrying case, owners manual, TPK-01 bead probe x 2 pcs
Option Accessory	Adaptor (AC 120V or 220V input , DC 9V output)

TECPEL Infrared Thermometers

Infrared Thermometer



DIT-501A 

- DIT 501A as small as your wrist watch
- IR-SoC technology (Infrared System on Chip) and Batch Calibration technology drive the dimension and cost to the lowest limit
- Emissivity Adjustable
- Max; Min and Lock modes
- Equipped with a mini-stand, can monitor temperature continuously for hours
- Scale selection: Fahrenheit/Celsius available
- Battery-low warning: 1/4 battery life remained

Measurement range	-33°C to 220°C
Display resolution	0.1°C
Accuracy	Accuracy : 0.5°C when Temp. object=15~35°C; Temp. ambient =25°C, 2% or 2°C whichever is greater
D:S (Distance : Spot)	1:1
D:S (Distance : Spot)	
Emissivity	Emissivity: Adjustable; Default at 0.95
Response time	<1.0 sec (0~90% Response)
Operating temp. range	32~122F (0~50°C)
General	
Power requirement	Battery CR2032 *1 unit
Dimensions	67.8x36.7x18 mm (2.67" x 1.45" x 0.71")
Weight	0.88 Oz (25g)
Accessories	carrying case, owners manual, battery

Infrared Thermometer



DIT-510 / DIT-512

- 20°C to 260°C (DIT-510)
- 20°C to 550°C (DIT-512)
- For Simple One Hand Operation
- Auto Power off Function
- Valox Housing to Withstand Accidental drops
- Detection element : Thermopile
- Sighting : Laser Marker 1mW
- Backlit LCD Display
- Analog Output:1mV/°C (DIT-510)
- Emissivity (ε) : 0.95 (DIT-510),
- Emissivity (ε) : 0.01~ 1.00 (DIT-512)
- Max, Min Record, Set High, Low limit beeper (DIT-512)
- D:S (Distance: Spot) = 10:1
- Auto-hold Function after Releasing MEAS Button

Measurement range	-20°C to 260°C (DIT 510),-20°C to 550°C (DIT 512)
Display resolution	1°C
Accuracy	± 3% of reading or ± 3°C whichever is greater
Temperature coefficient	± 2% of reading or +/-2°C whichever is greater.
Response time	1 second
General	
Power requirement	1.5V(AAA size) battery x4
Dimensions	170x44x40mm (6.7"x1.7"x1.6")
Weight	5.6 Oz (160g)
Accessories	Soft carrying case and owners manual

Infrared Thermometer



DIT-513 / DIT-515

- 30°C to 550°C (-22°F to 1200°F)
- For Simple one hand operation
- Auto Power off function 10 seconds
- Detection element: Thermopile
- Backlit LCD display
- Field of view (D:S) 10: 1
- Emissivity: 0.95 (DIT-513); 0.1 to 1.00 (DIT-515)
- Accuracy: ± 2% or 2°C which ever is larger
- Auto-hold function after releasing triggering button
- Alarm beeper set function for both low and high temperature (DIT-515)
- Sighting : Laser Marker 1mW

Measurement Range	-30°C to 550°C(-22°F to 1,200°F)
Display resolution	0.5°C, 0.5°F
Accuracy	±2% of reading or ±2°C whichever is greater
Temperature Coefficient	±2% of reading or ±0.2°C whichever is greater
Response time	0.25 second
General	
Power Requirement	9V Battery x1
Dimensions	148x105x42mm
Weight	5.2 Oz (145g)
Accessories	one battery 9V, PVC sleeve, operation manual

TEOREL Temperature and Humidity Meter

Dual Input



- Temp: -20°C ~ 60°C (-4°F~140°F)
K-type: -200°C~1370°C (-328°F~2498°F)
Humidity: 0~100%RH
- 4 Digit, triple display
- K-type termocouple
- Reading hold, °C or °F annunciators
- MAX. MIN. function
- Auto power off
- ΔREL function
- Automatic low battery indication
- RS-232 computer interface
- RS-232 cable and software for Windows (Options)

RS-232



DTM-321

Real time display



Measurement range	T1: -20°C ~ 60°C (-4°F~140°F) T2: K-type: -200°C~1370°C (-328°F~2498°F)
Humidity	0~100%RH, Accuracy ±2.5%RH
Accuracy	
-20°C~+60°C	T1: ±0.7°C
-4°F~140°F	T1: ±1.4°F
-200°C~1370°C	T2: ± (0.3% rdg +1°C) typical
-328°F~2498°F	T2: ± (0.3% rdg +2°F) typical
Temperature scale	Celsius or fahrenheit user-selectable
Resolution	Humidity: 0.1% RH; Temp. T1: 0.1°C, 0.1°F T2: -200°C~200°C, 0.1°C; 200°C~1370°C, 1°C.
Sensor	K-type Thermocouple
Response time(T1)	Humidity: 75 sec. in slowly moving air
Temperature	40 sec. in slowly moving air
Input protection	60V DC or 24V rms AC maximum
General	
Power requirement	9V Battery x1
Dimensions	Meter: 186x64x30mm (10.8"x2.5"x1.2") Probe: 190x15mm (7.5"x0.6") Weight: 11.2 Oz (320g)
Accessories	1 x TPK-01 probe, 9V battery, Deluxe carrying case, owners manual

Model	DTM 321	DTM 322
Δ REL function	√	N/A
Data logging	N/A	√
RS-232 cable & software	option	√

Dual Input + Data Recorder



- Temp: -20°C ~ 60°C (-4°F~140°F)
K-type: -200°C~1370°C (-328°F~2498°F)
Humidity: 0~100%RH
- Data Logging capacity 16,000 records
- 4 Digit, triple display
- K-type termocouple
- Reading hold, °C or °F annunciators
- MAX. MIN. function
- Auto power off
- Time function
- Automatic low battery indication
- RS-232 computer interface
- RS-232 cable and software for windows

RS-232



DTM-322

Real time display



Measurement range	T1: -20°C ~ 60°C (-4°F~140°F) T2: K-type: -200°C~1370°C (-328°F~2498°F)
Humidity	0~100%RH, Accuracy ±2.5%RH
Accuracy	
-20°C~+60°C	T1: ±0.7°C
-4°F~140°F	T1: ±1.4°F
-200°C~1370°C	T2: ± (0.3% rdg +1°C) typical
-328°F~2498°F	T2: ± (0.3% rdg +2°F) typical
Temperature scale	Celsius or Fahrenheit user-selectable
Resolution	Humidity: 0.1% RH; Temp. T1: 0.1°C, 0.1°F T2: -200°C~200°C, 0.1°C; 200°C~1370°C, 1°C.
Sensor	K-type thermocouple
Response time(T1)	Humidity: 75 sec. in slowly moving air
Temperature	40 sec. in slowly moving air
Input protection	60V DC or 24V rms AC maximum
General	
Power requirement	9V Battery x1
Dimensions	Meter: 186x64x30mm (10.8"x2.5"x1.2") Probe: 190x15mm (7.5"x0.6") Weight: 11.2 Oz (320g)
Accessories	1 x TPK-01 probe, 9V battery, Deluxe carrying case, owners manual, RS-232 cable & software for Windows

TECPEL Thermometer/Hygrometer

Highly Accurate Hygrometer



- Temp: -20°C ~ 100°C
Humidity: 0~100%RH
- 3 1/2 Digit , Back light display
- Use highly accurate RTD temperature sensor
- MAX, DATA, HOLD function
- Automatic low battery indication
- Valox housing to withstand accidental drops

Measurement Range	Temp: -20°C ~ 100°C
Humidity	0~100%RH
Temp. Accuracy	± 0.5°C -0°C~50°C, ±1°C -20°C to 0°C, 50°C to 100°C
Humidity Accuracy	± 2.5% at 25°C, 10% to 90% RH ± 5% at 25°C, 0% to 10% RH, 90% to 100% RH
Resolution	Temperature: 0.1°C.; Humidity: 0.1% RH;
Sensor	Pt385/1000Ω, RTD temperature sensor
General	
Power Requirement	4 piece 1.5V(AAA size) batteries
Dimensions	6.7"x1.7"x1.6"(170x44x40mm)
Weight	6.3 oz(180g)
Accessories	Soft carrying case, batteries, owners manual.



DTM-550

Large Display Thermo/Hygrometer



- Temperature: -50°C to +70°C
Humidity: 20%~95%RH
- Cool, Comfort, Warm 3 kinds of indication
- Low battery indication
- For wall mounting or table standing

Measurement range	-50°C to +70°C
Accuracy	
Temperature	± 0.5°C (0°C~40°C), ± 1°C (the remainder range)
Humidity	20%~95% (between 5°C~70°C), ± 3% (30~80%), ± 5% (the remainder range)
Resolution	0.1°C; 1%RH
Sampling time	every 10 seconds
Uncomfortable index	cool / Comfort/ Warm The discomfort index is calculated based on both temperature and humidity values.
General	
Power requirement	1.5V (AAA size) battery x2
Dimensions	140x62x22mm (5.5"x2.4"x0.9")
Weight	3.14 Oz (90g)



DTM-300

Jumbo Thermo Hygrometer



- Temperature:-10°C to +50°C (+23°C F to + 122°F) with 0.1°C
- Humidity: 20% ~ 99 %RH with 1% resolution
- 2 rows big digits 2.7cm (height) x 1.5cm (width) LCD display
- MAX. and MIN. temperature and humidity memory function
- Daily reset of max. and min. records function with internal clock.
- Indoor temperature and humidity display at the same time
- Use one " AAA" size battery (1.5V DC)
- For wall mounting or table standing

Measurement ranges	-10°C to +50°C (+23°F to + 122°F) ; °C /°F range selectable
Accuracy	
Temperature	±0.5°C(10°C~40°C), ±1°C (the remainder range)
Humidity	±6% at 25°C (30~80%)
Resolution	0.1°C; 1%RH
Sampling time	every 30 seconds
LCD display	2 rows big digits 2.7cm (high) x 1.5 cm (width)
General	
Power requirement	1.5V (AAA size) battery x1
Dimensions	102x92x22mm (4.0"x3.6"x0.9")
Weight	3.14 Oz (90g)



DTM-301

TECPEL

Hygrometer/Moisture Meter/Humidity Calibration Cells

Thermo Hygrometer + Ext. Temperature



DTM-303

- Temperature: -10°C to +50°C (+23°C F to +122°F) with 0.1 °C
- Humidity: 20% ~ 99 %RH with 1% resolution
- 2 Rows big digits 2.7cm(height) x 1.5 cm (width) LCD display
- Max. and Min. temperature and humidity memory function
- Daily reset of max. and min. records function with internal clock.
- Indoor temperature and humidity display at the same time.
- Use one " AAA" size battery (1.5V DC)
- For wall mounting or table standing
- Outdoor temperature measuring range: -50°C to +70°C (-58°F to 158 °F) with 0.1°C(°F) resolution

Measurement Ranges	-10°C to +50°C (+23°F to + 122 °F) ; °C / °F range selectable
Accuracy	
Temperature	±0.5 °C(10°C~40°C),±1 °C(the remainder range)
Humidity	±6% at 25°C (30~80%)
Resolution	0.1 °C; 1%RH
Sampling time	every 30 seconds
LCD Display	2 rows big digits 2.7cm(High) x 1.5 cm (width) Daily reset of max. and min. records function Display both temperature and humidity values at the same time.
General	
Power Requirement	1 piece 1.5V (AAA size) battery
Dimensions	122 x 103 x 20 mm (4.8" x 3.6" x 0.9")
Weight	3.14 oz(90g)

Wood Moisture Meter



TMM-590

- Portability and simplicity one-hand operation
- According to EN50081-1(97)
- Automatic power off
- Jack socket for pin extension leads
- Three lights to indicate moisture content in wood:
Green: "Air, dry" conditions
Yellow: Slightly in excess of normal
Red: Excess moisture
- Measuring principle is electrical resistance
- Valox housing to withstand accidental drops

Measurement range	8% ~ 28%
Accuracy	± 2%, at 23 °C±5°C, <75% R.H.
Operating environment	0°C to 40°C, 15 to 80% R.H.
Storage environment	-20°C to 60°C, 0 to 80% R.H. with battery removed from meter
Dimensions	193x44x40mm (7.62"x1.75"x2.9")
Weight	5.20 Oz (150g including battery)
Accessories	Soft carrying bag, 1.5V AAA x4, Owner manual

Humidity Calibration Cells



RHA-3375(RHA-33, RHA-75)

- Use formulated standard saturated salt solutions to produce predictable and stable humidity
- Easy to use and maintenance free
- Temperature Ratings: Accuracy: ±1% at 25°C(77°F) ±1 °C(2°F) (Assure good temperature stability during test)
- Humidity Ratings: RH values 32.8%(RHA-33) and 75.3% (RHA-75)
- Dimension: Single Cell: 39mm Dia x 83 mm High (1.5" dia x 3.3" High)
- Measuring port: 10mm (0.4") Diameter gland nut (Best for DTM-321, 322)

TEPEL Temperature Calibrators

High Precision Calibrator



CL-327

- Simple & easy to key-in the exact temperature value you need
- Dual LCD display to show the reference and room temperature at the same time
- Accept 11 different type of thermocouple (K, J, E, T, R, S, N, L, U, B, C)
- Auto-Ramp & . ΔT input, ΔT increment, and ΔT decrement function
- °C, °F, mV output

Thermocouple type	K, J, E, T, R, S, N, L, U, B, C & mV measurement
Range	Typical Accuracy
K: -200~1370°C, -328~2498°F	±0.4°C, ±0.7°F
J: -200~1050°C, -328~1922°F	±0.4°C, ±0.7°F
E: -150~800°C, -238~1472°F	±0.4°C, ±0.7°F
T: -200~400°C, -328~752°F	±0.4°C, ±0.7°F
R: 0~1760°C, 32~3200°F	±0.5°C, ±0.9°F
S: 0~1760°C, 32~3200°F	±0.5°C, ±1.0°F
N: -200~1300°C, -328~2372°F	±0.4°C, ±0.7°F
L: -200~900°C, -328~1652°F	±0.4°C, ±0.7°F
U: -200~600°C, -328~1112°F	±0.4°C, ±0.7°F
B: 600~1820°C, 1112~3308°F	±0.5°C, ±1.0°F
C: 0~2310°C, 32~4190°F	±0.5°C, ±0.9°F
mV: -9.999~60	10 μ V

Accuracy	±0.3°C ~ 0.9°C (K,J type -100°C ~1000°C ±0.4°C) -9.999mV /60 mV: 10 μ V
Resolution	0.1°C, 0.1°F
General	
Battery type	9V Alkaline Battery (External Power Input 9-15V)
Display	4 + 5 Digits
Operating temperature	0 to 50°C (32 to 122°F)
Operating humidity	Less than 85% relative
Storage temperature	20 to 60°C (-4 to 140°F)
Storage humidity	Less than 85% relative
Dimension	88x168x26 mm (3.46"x6.61"x1.03")
Weight	11.63 Oz (330g)
Accessories	Carrying case x 1, Users Manual x1, K type thermocouple connector 9V Battery x1

Dual Input/Output Thermometer & Calibrator



CL-326

- 3 1/2 Digital 2000 counts with high resolution
- Display back-light feature
- K/J/T/E-types thermocouple selection dual input
- HOLD function
- Highly accurate with 0.1%
- Auto range 0.1°/1°
- °C/°F user-selective
- Auto power off function
- Low battery indication approval

LCD display:	3 1/2 digit 19999
Over range indication:	OL
Zero:	Automatic
Measurement rate:	1 time/second
Operating environment:	0°C to 50°C, <70% R.H..
Storage environment:	-20°C to 60°C, 0 to 80% R.H. with battery removed from meter.
Accuracy	K-type (0.1°C) -200°C to 1372°C, -328°F to 1999°F
Stated accuracy at 23°C±5°C, <75% R.H	J-type (0.1°C) -210°C to 1200°C, -346°F to 1999°F
(Accuracy specification does not include type K thermocouple probe accuracy.)	T-type (0.1°C) -200°C to 400°C, -328°F to 752°F
	E-type (0.1°C) -220°C to 1000°C, -364°F to 1832°F
	According to temperature standard ITS-90
	Accuracy: ±(0.1%rdg + 1°C) on -60°C to 1372°C
	±(0.1%rdg + 2°C) on -60°C to -220°C
	±(0.1%rdg + 2°F) on -76°F to 1999°F
	±(0.1%rdg + 4°F) on -76°F to -364°F
General	
Power requirement:	9V Battery x1
Dimensions:	195x92x53 mm (7.7"x3.6"x2.1")
Weight:	250g
Accessories	Battery, operation manual, TPK-01 x 2, thermo connector x 1

Digital Lightmeter/Data Logger

Digital Lux Lightmeter



DLM-530

- For Simple One Hand Operation
- Accurate Visible Compensation Filter f_v is Used
- CIE (λ): f_v < 2%, < 3%, < 5%, < 8%, v(λ) Match
- Cosine Response: f_c < 2%
- Range: From 20 to 200,000 Lux
- Valox Housing to Withstand Accidental Drops
- Analog Output Function: 0.1mV/Counts
- Highly accurate f_v Compensation and Diffuser f_c < 2%
- MAX/Data Hold Function
- Backlit LCD Display

Photometric Formulas	10,764: footcandles = 1 Lux (lumens/meter ²)
Ranges	20Lux, 200Lux, 2,000Lux, 20,000Lux, 200,000Lux.
Resolution	0.01Lux.
Spectral response	CIE photopic
Acceptance angle	f _c < 2% cosine corrected (150°)
Total accuracy	for CIE standard illuminate A (2856K): (±3%rdg+10dgts)
Sampling rate	3 times/per second
General	
Power Requirement	4 piece 1.5V(AAA size) batteries
Dimensions	6.7"x1.7"x1.6" (170x44x40mm)
Weight	7.7 Oz(220g)
Accessories	Test leads, soft carrying case and owners manual.

Digital Lux/FC Lightmeter



DLM-531

- For Simple One Hand Operation
- Accurate Visible Compensation Filter f_v is Used.
- CIE (λ): f_v < 2%, < 3%, < 5%, < 8%, v(λ) Match
- Cosine Response: f_c < 2%
- Range : 20Lux, 200Lux, 2,000Lux, 20,000Lux, 20fc, 200fc, 2000fc, 20,000fc
- Analog Output Standard (output impedance 500Ω)
- Valox Housing to Withstand Accidental Drops
- Analog Output Function: 0.1mV/Counts
- Highly accurate f_v Compensation and Diffuser f_c < 2%
- Peak Data Hold Function
- Backlit LCD Display
- High Accuracy : ±3%rdg+10dgts
- 3 1/2 digit LCD display with a maximum reading of 1999
- Automatic Zero

Photometric Formulas	1 footcandles = 10.76 Lux (lumens/meter ²) 1 Lux (lumens/meter ²) = 0.0929 footcandles
Ranges	20Lux, 200Lux, 2,000Lux, 20,000Lux 20fc, 200fc, 2000fc, 20,000fc
Resolution	0.01lux. ; 0.01 fc
Spectral response	CIE photopic
Acceptance angle	f _c < 2% cosine corrected (150°)
Total accuracy	for CIE standard illuminate A (2856K): (±3%rdg+10dgts)
Sampling rate	3 times/per second
General	
Power Requirement	4 Pieces 1.5V (AAA size) batteries
Dimensions	6.7"x1.7"x1.6" (170x44x40mm)
Weight	7.7 Oz(220g)
Accessories	Soft carrying case, and owners manual

Datalogging Light Meter (RS-232)



DLM-536

- Spectrum of photo sensor meets C.I.E. photopic curve V(l)
- 16000 Records Data logging capacity
- RS-232 interface (software included)
- Measurement of luminous intensity (PC Software)



Photometric Formulas	1 footcandles = 10.76 Lux (lumens/meter ²) 1 Lux (lumens/meter ²) = 0.0929 footcandles
Ranges	20/200/2000/20000 Lux , 20/200/2000/20000 Fc
Resolution	0.01lux. ; 0.01 fc
Record (Data logging)	8000 Point Data logger
Total accuracy	±(3% rdg + 5dgts) (calibrated to standard incandescent lamp, 2856K)
Sensor	Silicon photo diode, Lead approx. 150cm,
Sensor Probe	100x60x27mm
Over range display	OL
General	
Power Requirement/ Life	One 9V battery, 50hrs (approx)
Dimensions	5.7"x2.8"x1.5" (146x70x39mm) approx.
Weight	10.50 Oz(300g)
Accessories	Software , RS-232 cable , 9 Pin to 25 Pin gender changer, Screwdriver

Sound Level Meters/ Sound Level Calibrator

Sound Level Meter



CE
EMC-LVD
DSL-330

- A and C weighted Sound Levels
- Measurement Range 30dB to 130dB
- 4-Digit Display with updated cycle 0.5 s
- 0.1 dB resolution
- Max/Min Hold Function
- The standard Fast and Slow Time weightings
- AC/DC signal output
- Overload condition indication
- Auxiliary output jack
- IEC 651 Type II
- Back screw hole for tripod connection

Level Range	Lo = 30-80 dB, Med = 50-100 dB, Hi = 80-130dB
Frequency Weighting	A, C
Time Weighting	Slow(1 s) & Fast (125 ms)
Accuracy	±1.5dB (under reference condition)
AC output	Voltage 1Vrms(at full scale)
DC output	Voltage 10mVdB
Output impedance	approx. 600Ω AC; 50Ω DC
Dynamic Range	50dB
Frequency Range	31.5Hz to 8kHz
General	
Power Requirement	One piece 9V battery NEDA 1604
Dimensions	10.8"x2.5"x1.2" (275x64x30mm)
Weight	9.82 Oz(280g)
Accessories	9V Battery, Carrying case, Calibration screwdriver, windscreen and owners manual.

Sound Level Meter+ Calibration



CE
EMC-LVD
DSL-332

- 35 ~ 130dB Range
- 0.1dB Resolution
- ± 1.5 dB Accuracy
- A/C weighting
- Fast/Slow Response
- Max Hold Function
- AC/DC output
- Reset Function
- Calibration 94dB
- IEC 651 Type2
- Back screw hole for tripod connection

DSL-332	DSL-330
35~130db	30~130db
calibration	N/A
Slide Switch	Push Switch

Level Range	A LO (Low) - Weighting: 35- 90dB A HI (High) - Weighting: 75-130dB C LO (Low) - Weighting: 35- 90dB C HI (High) - Weighting: 75-130dB
Resolution	0.1dB
Frequency Range	31.5Hz to 8KHz
Accuracy	± 1.5dB (ref 94dB @1KHz)
Dynamic Range	55dB
Frequency Weighting	A, C
Time Weighting	Slow(1 s) & Fast (125 ms)
Calibration	Electrical calibration by using the internal oscillator (1KHz sine Wave at 94dB)
Auxiliary Outputs	AC : 0.55Vrms each range step, impedance: 600Ω DC : 10mV/dB (nominally), impedance: 100Ω
General	
Power Requirement	one 9V battery
Dimensions	9.42"x2.67"x1.0", (240x68x25mm)
Weight	7.54 Oz (215g)
Accessories	Instruction Manual, 9V Battery, Carrying Case, Screwdriver, Windscreen

Sound Level Calibrator



CE
EMC-LVD
DSL-336

- 94dB and 114dB Sound Calibration at 1KHz
- Accurate and Simple to use
- Fits 1", 1/2" or 1/4" diameter microphone

Output Sound Pressure Levels	114dB and 94dB re 20 uPa under reference conditions.
Output Frequency	1000Hz ±4%
Reference Conditions	TEMP. 23°C(73°F), Atmospheric Pressure 1013 mbar (760mm of Hg), RH 65%
Accuracy of Sound Pressure Level	Under stated reference environment conditions ±0.5dB
General	
Power	One 9V battery 006P or IEC 6F22 or NEDA 1604.
Battery life	About 50 hours
Dimensions	4.05x2.48x2.12"(103x63x54mm)
Weight	7.02 Oz (200g)
Accessories	9V battery, Carrying case , Instruction manual. 1", 1/2" and 1/4" Microphone adaptor

Sound Level Data Logger / Tachometer

Programmable Sound Level Data logger



CE
EMC-LVD
DSL-331

RS-232

- Auto ranging measurement 30dB to 130dB
- Work with window software
- 32,000 Records data logger
- Bar graph Indication with back light
- RS-232 real time display software for window 95/98/2000/XP
- Frequency Weighting: A, C
- 4-Digit display with updated cycle 0.5s
- 0.1dB resolution
- Max/Min hold function
- The standard fast and slow time weightings
- AC/DC signal output
- Overload condition indication
- Auxiliary output jack
- IEC 651 Type II, ANSI S1.4 Type2
- Calibration Potentiometer easy to adjust

Standard applied	IEC651 Type 2, ANSI S1.4 Type 2
Frequency range	31.5Hz~8KHz
Measuring level range	30 ~ 130dB
Frequency weighting	A/C
Microphone	1/2 inch electric condenser microphone
Display	LCD Back Light Function
Digital display	4 digits, Resolution: 0.1dB, Display Update: 0.5 sec
Analog display	50 segment Bar graph, Resolution, Resolution: 0.1dB, Display update: 50mS
Time weighting	FAST (125mS); SLOW (1 Sec)
LEVEL range	Lo: 30 ~ 80dB; Med: 50~100dB, Hi: 80~130dB; Auto Range: 30~130dB
Accuracy	±1.5dB (under reference condition at 94dB 1KHz)
Measuring level range	30~130dB
Dynamic range	100dB
Over and under range	"OVER" is displayed, while input is more than upper limit

Indication function	of range. ; " UNDER" is displayed, while input is less than lower limit of range.
MAX/MIN hold	Hold reading the maximum and minimum value
AC output	1V rms at FS (full scale), output impedance : Approx. 100Ω
DC output	10mV/dB, output impedance approx. 1KΩ
Auto power off	30 minutes if no operation
GENERAL	
Power requirement	One piece 9V battery NEDA 1604
Power life	About 50 hours (Alkaline battery)
AC adapter (option)	Voltage 9VDC (8~ 15 VDC Max.); Supply current: > 30mADC
Weight	10 Oz (285g)
Accessories	9V battery, carrying case, calibration screwdriver, 3.5Ø plug, windscreen and owners manual
Tripod connection hole	Able to connect camera tripod stand

Digital Tachometer



RS-232

CE
EMC-LVD

RM-1500/ RM-1501

- 5 Digits LCD display
- Light reflex measurement
- Range from 10.00 to 99,999 RPM
- Measuring distance 50 to 300mm
- Event counter elapsed time
- Max/Min/Hold: True average
- Auto range RPM
- Optical measurement & contact Measurement
- Event counter (0~99,999)
- RS-232 interface (RM-1501)
- Contact RPM and circumferential velocity measurement in one simple adaptor (optional RM-1502)

General Specification:

Battery	Four 1.5V battery (AA, UM3)
Time Base	4.000MHz quartz crystal
Operating temperature	0°C~ 50°C (32°F~122°F)
Reflective light	Red LED
Size	6.8"(L)x2.5"(W)x1.4"(H) 175mm(L)x65mm(W)x36mm(H)
Weight	250g (Including battery)
Accessories	Carrying case x 1, reflective tape x 1 Instruction manual x 1, (Software & RS-232 cable for RM-1501)
Option	Contact adaptor (Optional RM-1502)
Ordering information:	
MODEL : RM 1500	Digital optical tachometer (exclude RM 1502)
MODEL : RM 1501	RS-232 interface, software and RS-232 cable
MODEL : RM 1502	Contact adaptor



RM-1502



TEOPEL Anemometer meters

Anemometer meter



AVM-702

- 3 1/2 Digit LCD display (1999 Count)
- Meter per second, kilometers per hour, knots, & feet per minute measurement units
- Low friction ball-bearing design ensures precise low and high reading
- Fast sampling rate of 2.5 times per second

Measurement range	0.8 ~ 30.0 m/s (meter per second) 2.8 ~ 108 km/h (kilometers per hour) 1.6 ~ 58 knots (nautical miles per hour) 160 ~ 5900 ft/min (feet per minute)
Resolution	0.1 m/s, 0.1 Km/h, 0.1 knots, 10ft/min
Accuracy	Full scale \pm (3%+2 dgts)
General	
Power requirement	9V Battery x1
Dimensions	180x73x23mm (4.3"x2.9"x1.4")
	Round sensor head 2.83 (72mm) diameter
Weight	9.2 Oz (260g)
Accessories	Sensor probe, battery and owners manual

Air flow + air temperature, air velocity with RS-232C



AVM-712

- 3 Measurements in one instrument
Air flow: CMM (M3/min) and CFM(FT3/min)
Air velocity: m/s, ft/min, km/h, knots, mile/h
Air temperature: Degree C and F
- 3 air flow mode: Instant, 2/3rd velocity Max. Average
- Use Low friction ball vane wheels to make sure high accuracy in high and low velocities
- Recall function for maximum and minimum record
- Data hold function
- High accuracy and special function built-in microcomputer circuit design
- Auto power off, Low battery indication.
- Use fast-response-time thermistor sensor for temperature measurement
- Separate probe for different environment measurement

Memory recall	Records maximum and minimum readings with recall
Sampling time	approx. 0.8 sec.
Data output	RS-232 PC serial interface
Power off	Auto shut off saves battery life or manual off by push button
Power supply	006P DC 9V battery, MN1604 (PP3) or equivalent (alkaline or heavy duty type)
Dimensions	Main instrument: 180x72x32mm (7.1"x2.8"x1.3") Sensor head: round 72mm dia.
Weight	381 gr. (0.84 LB)

Electrical specifications (23°C \pm 5°C)			
Air velocity			
Measurement	Range	Resolution	Accuracy
m/s	0.4 - 25.00 m/s	0.1 m/s	\pm (2% + 2d)
km/h	1.4 - 90.0 km/h	0.1 km/h	
mile/h	0.9 - 55.9 mile/h	0.1 mile/h	
knots	0.8 - 48.8 knots	0.1 knots	\pm (2% + 20 ft/min)
ft/min	80 - 4930 ft/min	1 ft/min	

RS-232

Air flow			
Measurement	Range	Resolution	Area
CMM (m ³ /min)	0 - 999,900 m ³ /min	0.001 - 100 m ³ /min	0.001 - 9,999 m ³ /min
CFM (ft ³ /min)	0 - 999,900 ft ³ /min	0.001 - 100 ft ³ /min	0.001 - 9,999 ft ³ /min

Air temperature			
Measurement	Range	Resolution	Accuracy
Temperature °C	0°C ~ 50°C	0.1°C	\pm 0.8°C
Temperature °F	32°F ~ 140°F	0.1°F	\pm 1.5°F

Optional	Accessories
UPCB-01	RS-232C cable (optional)
SW-U101-WIN	PC interface software (optional)

TEPEL Anemometer/EMF Field Testers

Hot Wire Anemometer



- Thermal Anemometer, available for very low air velocity measurement.
- Multi-functions for air flow measurement: m/s, km/h, ft/min, knots, mile/h.
- Super large LCD with dual function meter display, read the air velocity and temp. at the same time
- Records maximum and minimum readings with recall function
- Data hold, auto power off
- Thermistor sensor for temp. measurement, fast response time

RS-232



AVM-714



Accessories	
Spare telescope	probe standard accessory
UPCB-01	RS-232C cable (optional)
SW-U101-WIN	PC interface software (optional)

Sensor structure	Air velocity:	Tiny glass bead thermistor
	Temperature:	Precision thermistor
Memory	Maximum and minimum with recall	
Sampling time	approx. 0.8 sec.	
Data output	RS-232 PC serial interface	
Power off	Auto shut off saves battery life or manual off by push button	
Operating environment	0°C to +50°C < 80% RH	
Power supply	1.5V AAA (UM-4) battery x6 (alkaline or heavy duty type)	
Power current	approx. DC 30 mA	
Dimensions	Main instrument:	180x72x32mm (7.1"x 2.8"x1.3")
	Telescope	round 12 mm dia.
	probe:	L= 250 to 940 mm
Weight	355 gr. (0.78 LB)	

Electrical specifications (23°C ±5°C)			
Measurement	Range	Resolution	Accuracy
m/s	0.2 to 20 m/s	0.1 m/s	±(5%+1d) reading or ±(1%+1d) full scale (depending on which is larger)
km/h	0.7 to 72 km/h	0.1 km/h	
ft/min.	40 to 3940 ft/min	10 ft/min.	
mile/h	0.5 to 44.7 mile/h	0.1 ml/h	
knots	1.0 to 31.1 knots	0.1 knots	
Temperature °C	0°C to +50°C	0.1°C	±0.8°C
Temperature °F	32°F to 122°F	0.1°F	±1.5°F

EMF Field Testers



- 13mm(0.5"), 3 1/2 Digit LCD display
- Range in gauss: 0.1m to 199.9m gauss
- Range in Tesla: 0.01 ~ 19.99 Tesla
- Band width: 30Hz to 300Hz
- A cost effective, handheld meter provides the user with quick, reliable and easy way to measure electromagnetic field (EMF) radiation levels generated by power lines, cables, computer monitors, TV sets, Video equipment and many other similar devices
- Over range indication
- Fast sampling rate of 2.5 times per second



EMF-701



EMF-701A

Measurement range	0.1 to 199.9 milligauss 0.01 to 19.99µ tesla
Frequency bandwidth	30 to 300 Hz
Accuracy	±(4% +3 dgts) at 50/60Hz (EMF-701) ±(3% +3 dgts) at 50/60Hz (EMF-701A)
Number of axes	Single axis
General	
Power requirement	9V Battery (EMF-701) x1 AAA (EMF-701A) battery x4
Dimensions	EMF-701: 5.2"™x2.8"™x1.0"™(131x70x25mm) EMF-701A: 4.4"™x2.5"™x1.3"™(111x64x34mm)
Weight	5.8 Oz (165g)
Accessories	EMF-701: Battery and owners manual EMF-701A: Battery, soft carrying case, and owners manual

Pen Type pH Meter



pH-703



- ❑ High quality, light weight and compact design
- ❑ Measure water pH fast and easily in many fields such as swimming pools, aquariums, cooling towers, water and wastewater treatments, sanitation plants and laboratory applications.
- ❑ High resolution 0.01pH and high accuracy $\pm 0.02\text{pH}$
- ❑ Comes complete with protective carry case and standard pH7 buffer solution
- ❑ ATC: Auto temperature compensation

Measurement ranges	0.00 ~ 14.00pH
Resolution	0.01pH
Accuracy	$\pm 0.02\text{pH}$
ATC	0~50°C
General	
Power requirement	9V Battery x1
Dimensions	158x40x34mm (6.2"x1.6"x1.3")
Weight	3.15 Oz (90g)
Accessories	pH7 buffer solution can, batteries and manual, protective carrying case

pH Meter + Temperature



pH-705



RS-232

- ❑ 3 1/2 Digit, Large LCD display, Max Display 1999
- ❑ Measuring Range: pH 0.01~14.00 pH
- ❑ Temperature: 0.1°C~ 65°C
- ❑ Millivolt: 1mV 0~1999mV
- ❑ Accuracy: pH Value $\pm 0.03\text{pH}+2\text{d}$
- ❑ Temperature: $\pm 0.8\%$, Millivolt: $\pm 0.5\%$
- ❑ Dual display, reading hold function
- ❑ Manual/ Automatic temperature compensation
- ❑ Auto power off, RS-232 Interface....and etc.

Electrical specifications (23°C $\pm 5^\circ\text{C}$)				
Measurement	pH	mV	Temp. °C	Temp. °F
Range	0~14 pH	0~1999 mV	0~100°C	32~212°F
Resolution	0.01 pH	1 mV	0.1 °C	0.1 °F
Accuracy	$\pm 0.03\text{pH}+2\text{d}$	$\pm 0.5\% + 1\text{d}$	$\pm 1^\circ\text{C} < 50^\circ\text{C}$	$\pm 1.8^\circ\text{F} < 122^\circ\text{F}$



pH-04



pH-07

General							
Circuit	custom one-chip of microprocessor LSI circuit						
Display	Dual function meter's display, 13mm super large LCD display with contrast adjustment for best viewing angle						
Measurement	<table border="1"> <tr> <td>PH</td> <td>0 to 14 pH</td> </tr> <tr> <td>TEMPERATURE</td> <td>0 to 65°C (32 to 150°F)</td> </tr> <tr> <td>mV</td> <td>0 to 1999 mV</td> </tr> </table>	PH	0 to 14 pH	TEMPERATURE	0 to 65°C (32 to 150°F)	mV	0 to 1999 mV
PH	0 to 14 pH						
TEMPERATURE	0 to 65°C (32 to 150°F)						
mV	0 to 1999 mV						
Input impedance	10-12 Ω						
Weight	250g (including battery)						
Temp. compensation for pH range	<table border="1"> <tr> <td>Manual:</td> <td>0°C to 100°C adjusting by push button on front panel</td> </tr> <tr> <td>Automatic:</td> <td>with the optional temp. probe, 0°C to 65°C</td> </tr> </table>	Manual:	0°C to 100°C adjusting by push button on front panel	Automatic:	with the optional temp. probe, 0°C to 65°C		
Manual:	0°C to 100°C adjusting by push button on front panel						
Automatic:	with the optional temp. probe, 0°C to 65°C						
Calibration for pH range	Built-in SLOPE (PH-04) & CAL (PH-07) calibration VR (multi-turns potentiometer) on front panel, high reliability						
Data output	RS-232C PC serial interface						
Over input indication	indication of "----"						
Operating environment	0°C to 50°C (32°F to 122°F), < 80% RH						
Power supply	Heavy duty type, 006P DC 9V battery MN1604 (PP3)						
Dimension	180x72x32mm						
Weight	9.45 Oz (270g)						
Optional accessories							
CA-03	Carrying soft case						
UPCB-01	RS-232C cable						
SW-U101-WIN	Windows software 95/98 2000/XP						
PE-148	PH electrode 0~14pH, 0~80°C, PC 165 x 12 mm						
PE-149G	PH electrode 0~14pH, 0~90°C Refillable, Glass 155 x 12mm						
ORP-148G	PH electrode $\pm 150\text{mV}$, 0~80°C AgCl Refillable, Glass 160 x 12 mm						
TP-07	Temperature probe (0-65°C)						



PE-148



PE-149G



TP-07

ORP-148G

pH meters / Temp. Humidity Transmitter

pH/mV/Temp Meter



CE
EMC-LVD
pH-706

- Microprocessor based with splash proof housing
- Simultaneous display pH and temperature
- Automatic or manual temperature compensation. °C/°F switchable
- Simple to calibrate by one keyboard for 3 points buffer
- Calibration value can be adjusted as needed.
- Indicate percentage of slope (PTS) after calibration
- Low battery and consumption indicator
- Auto power off after 10 minutes of non use
- Rubber protective holster with magnetic

Model	MP-706		
Function	pH	mV	Temp.
Range	0-14.00	±1999.0	0-100°C
Accuracy	±0.02	±2	±0.5°C
Resolution	0.01	1	0.1°C
Compensation	ATC 0-100°C		
Calibration	pH 4.00, 7.00, 10.00		
Battery	9V		
Dimensions	108x75x30mm		
Weight	135g (with battery), 4.72 Oz		
Accessories	pH7 buffer solution can, batteries and manual, protective carrying case		

Temperature/Humidity Transmitter

- Fast, stable and accurate
- Watertight enclosure
- Compact size, easy mounting
- Excellent long-term stability
- Wide input voltage range. (12Vdc~40Vdc)
- Available with either current or voltage output
- On-site, two point calibration. (zero and span)

Specifications

Measurement	0~100% RH
Range	0~100°C (-20~+80°C, 0~50°C, -40~+60°C available)
Accuracy(at 25°C)	±2% RH, ±0.3°C
Long term stability	Better than 1% RH per year (Typical)
Temp. compensation	±0.008% RH/°C (Effect @ 0% RH)
Response	<15 seconds (90% at +25°C in moving air at 0.5 M/S)
Sensors	Humidity: Thin-film capacitor Temperature: RTD Pt 100Ω DIN, IEC751
Output	Humidity: 4~20mA two wire Temp: 4~20mA Two wire (scalable) ※ Selectable signal output of 0 to 1 V, 0 to 5 V, 0 to 10 V or 1 to 5V. (option)
Working voltage	12~36VDC
Sensor protection	Sintered filter, Part No. TR-3066. (option)
Housing	ABS plastic watertight enclosure (IP 65)
Connections	Liquid-tight nylon, cable Bushing: 5-10mm cables
Ambient temperature	-40~+85°C (-40~+185°F)
Weight:	Approx. 150g (5.24 Oz)



W Type

CE
EMC-LVD



D Type

CE
EMC-LVD



S Type

CE
EMC-LVD

TRH-301
Temperature transmitter
TRH-302
Humidity transmitter

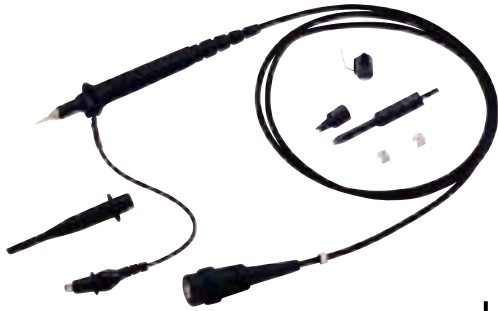
TRH-303
Temp./humidity transmitter

Ordering Information:

Model	Descriptions	
TRH-301	Temperature transmitter	
TRH-302	Humidity transmitter	
TRH-303	Humi./ temp. transmitter	
SHAPE (mounting)	W	Wall mount Type
	D	Duct mount Type
	S	Separated Type

TECPEL Oscilloscope Probes

Oscilloscope Probe LF-190E 60MHz



CE
EMC-LVD
LF-190E

CAT.II

Item	10 : 1	1 : 1
Bandwidth	DC~40MHz (± 1 dB)	DC~3MHz (± 1 dB)
	DC~60MHz (± 3 dB)	DC~6MHz (± 3 dB)
Input R	$\approx 10\text{M}\Omega$	1M Ω (Oscilloscope)
	$\approx 22\text{pF}$	$\approx 180\text{pF}$
Input C	at Oscilloscope input 20pF	
ATT ratio	1/10	1/1
MAX input voltage	DC 600V	

Oscilloscope Probe LF-210E 100MHz



CE
EMC-LVD
LF-210E

CAT.II

Item	10 : 1	1 : 1
Bandwidth	DC~60MHz (± 1 dB)	DC~6MHz (± 3 dB)
	DC~100MHz (± 3 dB)	
Input R	$\approx 10\text{M}\Omega$	1M Ω (Oscilloscope)
	$\approx 14\text{pF}$	$\approx 150\text{pF}$
Input C	at Oscilloscope input 20pF	
ATT ratio	1/10	1/1
MAX input voltage	DC 600V	

Oscilloscope Probe LF-250 250MHz



CE
EMC-LVD
LF-250

CAT.II

Item	10 : 1	1 : 1
Bandwidth	DC~250MHz (± 3 dB)	DC~6MHz (± 3 dB)
Input R	$\approx 10\text{M}\Omega$	1M Ω (Oscilloscope)
Input C	$\approx 14\text{pF}$	$\approx 150\text{pF}$
	at Oscilloscope input 20pF	
ATT ratio	1/10	1/1
MAX input voltage	DC 600V	

Differential Probe HP-025 25MHz



CE
EMC-LVD
HP-025

- Make floating measurements simply and safely
- Compatible with analog or digital storage oscilloscopes
- In compliance with IEC-1010.1, IEC-1010.2-031 CAT.III, Pollution degree 2

Bandwidth	DC to 25MHz (-3dB)
Attenuation Ratio	1/20 & 1/200
Accuracy	$\pm 2\%$
Input impedance	4M Ω / 10pF each side to ground
Differential input range	$\pm 1400\text{V}$ (DC+ AC peak) or 1000V rms for 1/200 $\pm 140\text{V}$ (DC+AC peak) or 100V rms for 1/20
Common mode range	$\pm 1400\text{V}$ (DC+AC peak) or 1000V rms
Output offset:	$\leq \pm 5\text{mV}$, -10°C to 40°C
Cable length:	95cm(RG58/U)
Power requirements:	4 x AA cells or 6VDC/60mA mains adapter (not supplied)
Dimension:	168x62x20mm (6.6"x2.4"x0.8")
Weight:	285g (0.583 lbs)

Differential Probes / High Voltage Probe / Meter



DP-25

Differential Probes

- converts the high voltage differential input signal to a low voltage ground referenced signal for display on any Oscilloscope.
- 3 Range Attenuator.
- 1000V Input CAT III.
- Low battery indication, Auto power off.
- Meet CE, IEC 1010, EN 61010, UL 3111.

Band width (-3dB, 50Ω load)	DC-25MHz . (x 20: DC~15MHz)
Accuracy	± 2% at 20-30°C 70% RH after 20 minutes warm up.
Attenuation	x 20, x 50, x 200 (Into 1MΩ scope) ; x 40, x 10, x 400 (Into 50Ω load)
Maximum operation Voltage (DC + peak AC)	≤ ± 140V at x 20 ≤ ± 350V at x 50 ≤ ± 1300V at x 200
Maximum input Differential Voltage	1300V (DC + peak AC) or 1000V RMS
Maximum input Voltage to Ground	1000V (DC + peak AC) or 600V RMS

Common Mode Rejection Ratio (CMRR)	60Hz : >10,000 : 1 100Hz : >1,000 : 1 1MHz : > 300 : 1 Noise : ≤ 2 mV rms (Into 50Ω load)
Input Impedance	2MΩ, 2.3 PF between inputs and ground. 4MΩ, 1.2 PF between inputs.
Power requirement	One internal 9V alkaline battery or external 6V-9
Dimensions	180x50x30mm (7.1"x1.9"x1.2")
Weight	250g (9 Oz)



HVP-15HF
(1000:1 , 50MHz , low noise HV probe)

High Voltage Probe

- Max.Voltage:15KV DC.
- Bandwidth:DC~50MHz.
- Division Ratio:X1000.
- Signal/Noise:>60dB(1KHz)
- Connect with PL-10, HVP-15HF can be used for DMM

Max. Working Voltage	DC: 0~ 15KV DC, AC : Pulse ≤30KV p-p AC: Since Wave≤10KV rms
Signal/Noise	≥60dB (1KHz), ≥50 dB(1MHz)
Bandwidth	DC ~50MHz (-3dB)
Division Ration	1: 1000
Rise Time	≤ 7nS
Input Resistance	100MΩ ± 0.5 %
Input Capacitance	3.0PF ± 0.5PF
Compensation Coefficient	≤200PPM/°C
DC accuracy	≤ 0.7%
Weight/Dimension	250g (340mmLx75ø)



PL-10

High Voltage Meter

- DC 40KV CAT II Pollution 2
- 600MΩ Impedance
- 25KV ± 2%, 40KV ± 3%
- T.C. 200 ppm/°C
- Positive Polarity only.
- Resolution 1KV
- Need not power.
- CE, TUV GS, UL, CUL, IEC1010



HVP-40M

SPECIFICATIONS	(20 ± 5°C, RH < 80%)
Input impedance	600MΩ
Maximum operation voltage	40KV DC , CAT II , Pollution 2
Polarity	Positive only
Display	Analog indicate
Accuracy	Factory calibrator 25KV ± 2%
	FULL scale 40KV ± 3 %
Temperature Coefficient	≤ 200ppm / °C
Maximum loading Current	≤ 70μA

Maximum loading power	≤ 3 watt
Voltage Range	40KV / 1 Range
Voltage resolution	1KV
Power source	Need not power
Operating temperature	0°C ~ + 50°C
Storage temperature	- 20°C ~ + 70°C
Ground lead length	90cm (35 ")
Dimensions:	420 mmL x 80ø
Weight	360g (12.6 Oz)

Bead Probe

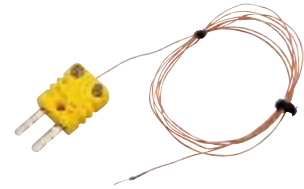


TPK-01

-50°C~200°C/-58°F~392°F, for measuring surface of air temperatures. 4ft. wire (122cm) with an industry standard miniature connector plug.

Tiny Bead Probe

- ❑ -50°C ~ 180°C/-58°F ~356°F for measuring surface of tiny objects.
- ❑ 4ft. wire (122cm) with an industry standard miniature connector plug. 40 gauge wire: 0.079mm (0.0031")



TPK-01-40G

TPT-01 T type Thermocouple

- ❑ -199°C ~ 200°C/-58°F ~392°F
- ❑ For air, water, and oil
- ❑ Length :122 cm
- ❑ Flat Wire 1.1mm x 1.6mm



TPT-01

Glass Fiber Bead Probe

- ❑ Bead Probe TPK-01G
- ❑ -50°C ~ 450°C /-58 °F~392°F, for measuring of air, water, oil temperatures. 4ft. (122cm)
- ❑ wire with an industry standard miniature connector plug.



TPK-01G

Immersion Probe

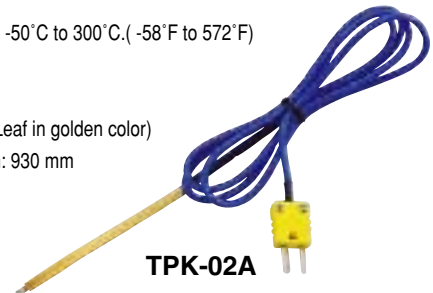
TPK-03



- ❑ -50°C~800°C/58°F~1472°F General purpose needle type with stainless round head. For measuring liquid or gel.
- ❑ pipe: 19.5cm, handler 12cm, wire 70cm

Flat-Leaf Surface Probe

- ❑ Measurement Range: -50°C to 300°C.(-58°F to 572°F)
- ❑ Thickness: 1.0 mm
- ❑ Width: 2.0 mm
- ❑ Length: 84 mm (Flat Leaf in golden color)
- ❑ Straight Cable Length: 930 mm



TPK-02A

Immersion Probe

TPK-03S



- ❑ -50°C~800°C/58°F~1472°F, General purpose needle type with stainless point head. For measuring internal temperatures of liquids, semi-solids such as oils, rubbers, plastics, powers, clays, meats, fruits, frozen foodstuffs,
- ❑ pipe: 9.8cm, handler 5.5cm, wire 70cm

Immersion Probe

- ❑ -50°C ~ 300°C/-58°F ~572°F
- ❑ Pipe 12 cm, handler 10 cm
- ❑ General purpose needle type with stainless point head for measuring internal temperature of liquids, semi-solids such as oils, rubbers, plastics, powders, clays, meats, fruits, frozen foodstuffs.
- ❑ Curling wire 70cm extendable to 170 cm.

TPK-03A



TECPEL Thermocouple Probes / Test Leads

Surface Probe

TPK-04S

-50°C to 500°C, (-58°F to 932°F), Fast response probe. Ideal for measuring the surface temperature of small electronic parts..



Surface Probe

TPK-04

-50°C to 500°C, (-58°F to 932°F), Fast response probe. Ideal for measuring the surface temperature of small electronic parts.



90° Angle Surface Probe

- Measurement range: -50°C to 500°C, (-58°F to 932°F)
- Diameter: 14 mm
- Length : 185 mm (Stainless steel)
- Hand Holder: 120 mm
- Coiled Cable: 1500 mm

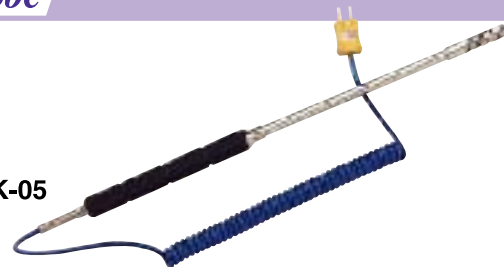


TPK-04L

Air Probe

TPK-05

-50°C~600°C/-58°F~1120°F, Fast response probe. Ideal for measuring air, gases, freezers, ovens, fans and its drilled sheath protects element and assures airflow permeability.



Roller Probe

TPK-06

-50°C~250°C/-58°F~482°F, Fast response probe. Ideal for measuring moving rotating, stationary surfaces or moving conveyors for molds, textiles, prints, PC boards, papers, textiles.



Safety Alligator Clips

- Wide grip crocodile clips with integral finger guard, large 35mm high tension spring mouth. Double insulated silicone wire 1M. Safety straight
- input plug, comply with IEC 1010, 1000V, CAT III.

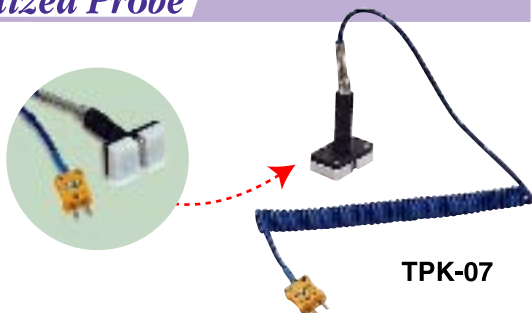
AL-03



Magnetized Probe

TPK-07

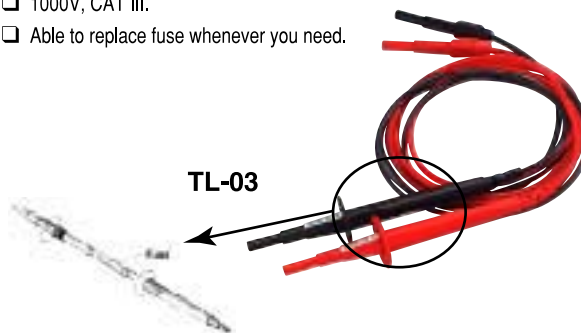
-50°C~250°C/-58°F~482°F, Fast response probe. Ideal for measuring magnetic surface such as motors, transformers, dryers, blast furnaces, heating elements.



Fused Test Leads TL-03

- The spring-shrouded 4mm brass caged banana probe tip, double insulated
- silicone wire 1M, safety straight input plug. Comply with IEC 1010,
- 1000V, CAT III.
- Able to replace fuse whenever you need.

TL-03



Safety Test Leads



AL-01 & TL-01

Tested to meet ICE1010-1, CAT. III 1,000V, 10A. The alligator clips (AL-01) are designed to screw onto the test leads (TL-01) for safety operation.

Safety Test Leads

TL-02



Double Insulated, CAT. III 1,000V 10A Test leads with right angle ø4 mm plug, Lead length 96 cm, Total 110 cm

Test Lead Set



LS-08



Including Alligator AL-01 2pcs, TL-1053 2 pcs, TL-1055 2 pcs, TL-1056 2 pcs Total 8 pcs, Tested to meet IEC 1010-1, Double insulation, CAT. III 1,000V 10A, CE approved.

Test Lead Set



LS-12



Including Alligator AL-01 2pcs, TL-1053 2 pcs, TL-1055 2 pcs, TL-1056 2 pcs Total 12 pcs Tested to meet IEC 1010-1, Double insulation, CAT. III 1,000V 10A, CE approved.

Test Leads

TL-201



BNC-Alligator Test Lead Cable length 90 cm Total 109 cm.

Test Leads

TL-202



BNC-BNC Coaxial Cable, Cable length 94 cm, Total 104 cm.

Test Leads

TL-203



Alligator-Banana plug Test Lead, Lead length 86 cm, Total 122 cm.

Test Leads

TL-303 Current 3A
TL-304 Current 4~10A



Safety ø4mmmm plug-Alligator Test Lead with stackable ø4mm safety plug. All round protection from electric shock, Lead Length 94 cm, Total 104 cm.

Welcome special order for TL-200/300 series

Software ThemoLink / TestLink



SE-300
For DTM-315, 316, 317 and 318.

SE-310
For DTM-321 and 322.

Deluxe Carrying Case



DCC-01
For DSL-330, DTM-317,318,319
DTM-321, 322

Soft Carrying Cases



SCC-01
For DCM-2600, 2605, 2606, 2608



SCC-02
For DPM-035



SCC-03
For DTM-315, DTM-316

Carrying Cases



SCC-04
For DIT-510, 512, DIM 570



SCC-05
For DLM-530, DTM-550



SCC-06
For DCM-036, 037



HCC-07
For pH-703

Holsters



HS-01
For DMM-120, 123, 124, 125
DTM-305, 306, 307



HS-02
For DMM-127, 129



HS-03
For DMM-8088



HS-04
For DMM-8007, 8020, 8050

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