

Optional Accessories and Spare Parts

Name	Model	Specification	Applicable DMM Models	Appearance
DMM communication package	92015	USB communication adapter + USB communication cable + Application software	TY700 series TY530	
Communication package for printer	97016	Printer adapter + Printer cable	TY700 series TY530	
Printer	97010	Thermal printer (paper width 112mm)		
AC adapter for printer	94005	AC 100V ±10%	TY700 series TY530	
	94006	(For Europe) 230V AC ±10%		
	94007	(For USA) 120V AC ±10%		
Thermal printing paper	97080	10 rolls (1set)		
Test leads	98015	1000V CAT.III 600V CAT.IV Red/black (1set)	All models	
	RD031	L-plug, Red/black (1set)	732 series	
Test leads with Alligator Clip	99014	1000V CAT.III 600V CAT.IV Red/black (1set)	All models	
Alligator clips	B9646HF	Red/black(1set)	All models	
Fuse	F02	15A/250V (3pcs/1set)	73201/73202/73203	
	F05	500mA/250V(3pcs/1set)		
	99015	440mA/1000V(1pc/1set)	TY700/TY500 series	
	99016	10A/1000V(1pc/1set)		
Rubber case	93007		732 series	
Carrying case	B9646GB	Hard case		
	93029	Hard case (Houses the DMM, the test leads and communication cable)	TY700/TY500 series	
Temperature (thermocouple type K) probe	90050	-50°C to 600°C(for liquid)	TY700/TY500 series	
	90051	-50°C to 600°C(for liquid)		
	90055	-20°C to 250°C(for surface)		
	90056	-20°C to 500°C(for surface)		
Current clamp probe	96001	For 400A AC; 10mV/A AC output	All models except 73101 (with TY500 series upto 60A can be read directly)	
	96095	For 130A AC/180A DC; 10mV/A AC/DC output		

Current Clamp Probe:TY700/TY500 series (Direct reading is possible for TY500 series)

Name	96036	96033	96030	96031	96032	96034	96035
Current Clamp Probe							
Measurable Conductor Diameter	dia. 40mm	dia. 18mm	dia. 30mm	dia. 30mm	dia. 65mm	dia. 65 x 100mm	dia. 170mm
Measurement Range	2A,AC	50A,AC	200A,AC	500A,AC	700A,AC (1000A for 5 minutes)	1000A, 2000A, 3000A, AC	300 - 3000A,AC
Output Voltage	50mV,AC	500mV,AC	500mV,AC	500mV,AC	250mV,AC	500mV,AC	500mV,AC
Accuracy *varies according to input/Amplitude	±0.5% of rdg	±0.5% of rdg	±0.5% of rdg	±0.5% of rdg	±1.0% of rdg	±1.0% of rdg	±1.0% of rdg
Frequency Range	20Hz - 5kHz	20Hz - 20kHz	20Hz - 20kHz	20Hz - 5kHz	45Hz - 66Hz	30Hz - 1.5kHz	10Hz - 20kHz
Maximum Circuit Voltage	50V,AC	300V,AC	600V,AC	600V,AC	600V,AC	600V,AC	1000V,AC (pri)

Note:Use AC voltage range of the DMM.

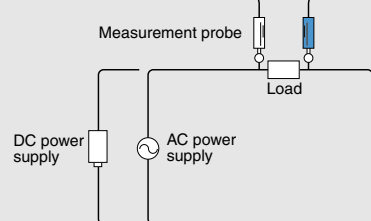
Note:Need to covert the meter reading except TY500series.

Basic Usage Digital Multimeters

Voltage/Resistance Measurement

The COM terminal and V/Ω terminal are used. To measure a voltage, set the dial to voltage measurement. To measure a resistance, set the dial to resistance measurement. Some DMM models can also display the frequency and calculated decibel value at the same time when measuring an AC voltage. During resistance measurement, it is possible to switch the function to checking of the continuity of the measured circuit.

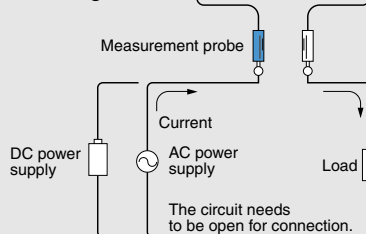
Measuring a Voltage and Resistance



Current Measurement

The COM terminal, and A, μA or mA terminal are used. Some models have shutters for preventing erroneous insertion into the current terminals and allow a contact of a lead to a current terminal only when the dial is set to current measurement. For these models, you cannot set the dial to voltage measurement while a lead is left inserted into a current terminal. This feature provides greater safety.

Measuring a Current



Diode Test

A current flows through a diode when the power supply is connected as (1) below, while, almost no current flows when the power supply is connected as (2). The diode test function applies an adequate forward voltage across a diode to make a constant current flow and measures the voltage drop in the forward direction to determine the forward and reverse directions of the diode.

Checking the Polarity of a Diode

