

DT-117-TA

DIGITAL MULTIMETER WITH CALIBRATION CHART

CALIBRATION CERTIFICATE TEST DATA

Max reading 4000

CR6

The display on this multimeter is 4000 segments function.

Operation	Dual integration method
Max reading	4000 and bargraph
Sampling rate	3 times/second
Battery	R6×2
Dimensions	70(W)×32.5(H)×157.5(D)mm
Weight	235g

■ Accessory:DT-113-1,Carrying case(DT-510Z)

	Range	Accuracy	Internal resistance
DCV	400.0mV	± (0.5%rdg+2dgt)	≥Approx. 100Ω
	4.000V		Approx. 11MΩ
	40.00V	± (0.9%rdg+2dgt)	
	400.0V		Approx. 10MΩ
ACV	1000V	± (1.0%rdg+2dgt)	
	4.000V	± (1.2%rdg+9dgt)	Approx. 11MΩ
	40.00V	± (1.2%rdg+5dgt)	
	400.0V		Approx. 10MΩ
Ω	750.0V	± (1.5%rdg+5dgt)	
	400.0Ω	± (1.5%rdg+5dgt)	
	4.000kΩ	± (1.2%rdg+4dgt)	
	40.00kΩ		
	400.0kΩ		
DCA	4.000MΩ	± (1.8%rdg+2dgt)	
	40.00MΩ	± (3.0%rdg+2dgt)	
	400.0μA		Approx. 100Ω
	4000μA	± (1.5%rdg+2dgt)	
	40.00mA		Approx. 1Ω
ACA	400.0A	± (2.0%rdg+2dgt)	Approx. 0.01Ω
	20.00A		
	400.0μA		Approx. 100Ω
	4000μA	± (1.8%rdg+5dgt)	
	40.00mA		Approx. 1Ω
C	400.0mA	± (2.5%rdg+5dgt)	Approx. 0.01Ω
	4.000A		
	20.00A		
Buzzer	•0.4V 10~120Ω		
Diode	•Release voltage Approx.1.5V		
F	50.00nF		
	500.0nF		
	5.000μF	± (5.0%rdg+6dgt)	
	50.00μF		
	100.0μF		



DT-117 DIGITAL MULTIMETER

CR6

※Without calibration chart.

■ Replacement Parts
DT-113-1 TESTER PROBE (PIN TYPE)

DT-121-TA

DIGITAL MULTIMETER WITH CALIBRATION CHART

CALIBRATION CERTIFICATE TEST DATA

Max reading 4000

CR2032

- Even though this is a very small meter, it has a full range of functions.
- It can do frequency measurements, duty ratio measurements, and relative value measurements for functional loading.
- It comes with a soft carrying case.

Operation	Dual integration method
Max reading	4000
Sampling rate	3 times/second
Battery	CR2032×1
Dimensions	56(W)×11.5(H)×108(D)mm
Weight	50g

■ Accessory:Pin-type tester probe/Carrying case

	Range	Accuracy	Internal resistance
DCV	400.0mV	± (0.7%rdg+3dgt)	≥100MΩ
	4.000V		Approx. 11MΩ
	40.00V	± (1.3%rdg+3dgt)	
	400.0V		Approx. 10MΩ
ACV	500V		Approx. 11MΩ
	4.000V	± (2.3%rdg+10dgt)	
	40.00V	± (2.3%rdg+5dgt)	
	400.0V		Approx. 10MΩ
Ω	400.0Ω		
	4.000kΩ	± (2.0%rdg+5dgt)	
	40.00kΩ		
	400.0kΩ		
	4.000MΩ	± (5.0%rdg+5dgt)	
F	40.00MΩ	± (10%rdg+5dgt)	
	4.000pF	± (5.0%rdg+25dgt)	
	40.00pF		
	400.0pF	± (5.0%rdg+10dgt)	
	4.000μF		
Hz	40.00μF	± (10%rdg+15dgt)	
	200.0μF		
	9.999Hz		
	99.99Hz		
	999.9Hz	± (0.7%rdg+5dgt)	
DUTY	9.999kHz		
	99.99kHz		
	999.9kHz		
Buzzer	•) •0.4V 10~60Ω		
Diode	▶ Release voltage Approx.1.5V		



DT-121 DIGITAL MULTIMETER

CR2032

※Without calibration chart.

Maximum display range and accuracy(allowance)for thermometers and digital multimeters

rdg(reading)

The value display on the digital display, readout.



dgt(digit)

Indicates the least significant digit. It represents the error used for processing fractions when converting from analog to digital.

Maximum display range

DT-121 is the maximum display range is "4000". DT-117 is the maximum display range is "4000". DT-510 is the maximum display range is "1999".

For example of measuring resistance at DT-117

Resistance	Display
4000kΩ	4.000MΩ
4000Ω	4.000kΩ
40Ω	40.00Ω
4.0Ω	4.000Ω

The range is automatically switched so that the display becomes MΩ or kΩ. The reading is display with three digits.

Accuracy(allowance)

when measuring using the DT-117



is displayed.

The accuracy of the 2 V reading is ± (0.9%rdg+2dgt). In this case, the accuracy is 2V±0.02V.