



DT-215

Datasheet

1. Introduction

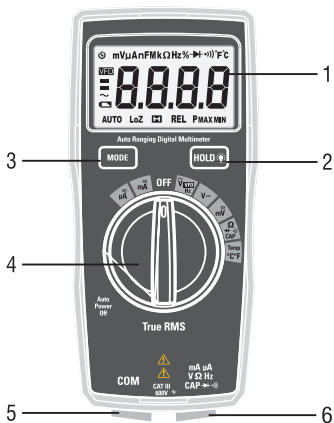
This meter measures AC/DC Voltage, AC/DC Current, Resistance, Diode Test, Continuity, capacitance, frequency(electrical), duty cycle, temperature. Proper use and care of this meter will provide many years of reliable service.

2. General Specifications

Insulation	Class 2, Double Insulation
Diode Test	Test current 1mA max., open circuit voltage of 3V typical
Continuity Test	Audible signal if the resistance is $<50\Omega$
Low Battery Indication	"  " is displayed
Display	6000 count LCD
Over Range Indication	"OL" is displayed
Polarity	Minus symbol "-" is displayed for negative polarity
Measurement Rate	3 readings per second, nominal
Auto Power Off	After approx. 15 minutes
Input Impedance	$>10M\Omega$ AC and DC Voltage
AC Response	True RMS Responding
AC Bandwidth	50 to 400Hz
Batteries	Two AAA 1.5V batteries
Fuse	μA , mA Ranges: 800mA/1000V fast acting Fuse
Operating Environment	0°C to 40°C (32°F to 104°F) at $<70\%$ relative humidity
Storage Environment	-10°C to 50°C (14°F to 122°F) at $<80\%$ relative humidity
Operating Altitude	2000 meters
Dimensions/ Weight	132 x 64 x 26mm/158.5g(includes holster)
Safety	Complies with UL 61010-1 v.3 for measurement Category III 600V, Pollution Degree 2

3. Meter Description

1. LCD display
2. HOLD and Backlight button
3. MODE button
4. Rotary function switch
5. COM input jack
6. V, Ω , Hz, %, mA, μ A, temperature input jack



4. Specifications

Function	Range	Resolution	Accuracy
DC Voltage	60mV	0.01mV	± (0.8% reading + 3 digits)
	600mV	0.1mV	
	6V	0.001V	
	60V	0.01V	
	600V	0.1V	
AC Voltage	45Hz to 400Hz		± (1.2% reading + 8 digits)
	60mV	0.01mV	
	600mV	0.1mV	
	6V	0.001V	
	60V	0.01V	
	600V	0.1V	
VFD	45Hz to 400Hz		± (3% reading + 5 digits)
	200V~600V	0.1V	
	All AC voltage ranges are specified from 5% of range to 100% of range		
DC Current	600μA	0.1μA	± (1.2% reading + 5 digits)
	6000μA	1μA	
	60mA	0.01mA	
	600mA	0.1mA	± (1.5% reading + 10 digits)
AC Current	50Hz to 400Hz		± (1.2% reading + 5 digits)
	600μA	0.1μA	
	6000μA	1μA	
	60mA	0.01mA	
	600mA	0.1mA	± (1.5% reading + 10 digits)
	All AC Current ranges are specified from 5% of range to 100% of range		

NOTE: Accuracy is stated at 18°C to 28°C (65°F to 83°F) and less than 75% RH.

Function	Range	Resolution	Accuracy
Resistance	600Ω	0.1Ω	± (1.5% reading + 5 digits)
	6kΩ	0.001kΩ	
	60kΩ	0.01kΩ	
	600kΩ	0.1kΩ	
	6MΩ	0.001MΩ	
	60MΩ	0.01MΩ	± (2.5% reading + 5 digits)
Capacitance	60nF	0.01nF	± (2.5% reading + 5 digits)
	600nF	0.1nF`	
	6μF	0.001μF	± (2.5% reading + 5 digits)
	60μF	0.01μF	
	600μF	0.1μF	
	6mF	0.001mF	± (3% reading + 5 digits)
	60mF	0.01mF	
Frequency (electronic)	10.0~10KHz	0.01Hz	± (1.0% +5reading)
	Sensitivity : >8V RMS		
Duty Cycle	0.1 to 99.9%	0.1%	± (1.2% reading + 2 digits)
	Pulse width: 100μs - 100ms, Frequency: 5Hz to 10kHz		
Temperature	-4°F to 1472°F	1°F	± (1.5% + 9°F)
	-20°C to 800°C	1°C	± (1.5% + 5°C)

Note: Accuracy specifications consist of two elements:

- (% reading) – This is the accuracy of the measurement circuit.
- (+ digits) – This is the accuracy of the analog to digital converter.

