


DER EE DE-243

Digital Multimeter



- True RMS
- Auto power off selection
- Auto and manual range
- Relative mode
- Data hold function
- Frequency up to 5MHz and duty cycle
- Temperature measurement
- Over range protection
- Backlight - blue

SPECIFICATIONS

- **LCD Display:** 4000 Counts
- **Sampling Rate:** Approx. 3 times per second
- **Range:** Automatic & manual
- **Overload:** "OL" Display on LCD
- **Low Battery:**  Display on LCD
- **Battery life time:** Approx. 400 hours at DCV (not with backlight)
- **Auto Power Off:** In 30 minute approx.
- **Battery:** AA Battery 1.5V x 2
- **Applicable height:** Up to 2000M (above sea level)
- **Safety standard:** IEC 61010-1 CAT. III 600V

DIMENSIONS & WEIGHT

- **181(L) x 91(W) x 57(H) mm**
- **Approx. 380g (Excluding battery)**

TEMP/HUMIDITY

- **Operation:** -10°C~50°C / <80% R.H. (no condensation)
- **Storage:** -20°C~60°C / <70% R.H. (no condensation)

ACCESSORIES

- **Battery AA 1.5V x 2**
- **Instruction Manual**
- **Test Lead (black + red)**
- **Holster + Stand Rack**

OPTIONAL ACCESSORIES

- **K-Type Temperature Adapter / Thermocouple**



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Measurement Ranges (23°C ± 5°C < 80%R.H. MAX.)

Accuracy : ±(%rdg+dg)

Measurement	Range	Resolution	Accuracy Sine nWave (40Hz~500Hz)	Input Resolution	Max. Input Voltage
ACV	400.0mV	0.1mV	1.0%+10	Around 11MΩ	1000V rms
	4.000V	0.001V	1.0%+5		
	40.00V	0.01V			
	400.0V	0.1V		Around 10MΩ	
	1000V	1V			
DCV	400.0mV	0.1mV	0.5%+3	≥100MΩ	1000V rms
	4.000V	0.001V		Around 11MΩ	
	40.00V	0.01V		Around 10MΩ	
	400.0V	0.1V			
	1000V	1V			

Measurement	Range	Resolution	Accuracy	Remark	Max. Input Voltage
Resistance	400.0Ω	0.1Ω	0.5%+3	<ul style="list-style-type: none"> Open circuit Voltage around 0.4V The current changes in accordance with the resistance measured 	1000V rms
	4.000.0kΩ	0.001kΩ	5.0%+2		
	40.00.0kΩ	0.01kΩ			
	400.0kΩ	0.1kΩ			
	4.000MΩ	0.001MΩ			
40.00MΩ	0.01MΩ	1.5%+3			

Measurement	Range	Resolution	Remark	Max. Input Voltage
Continuity	400.0Ω	0.1Ω	<ul style="list-style-type: none"> Buzz emits when below around 90Ω ± 40Ω Open circuit voltage around 0.4V 	1000V rms

Measurement	Range	Resolution	Accuracy	Open Circuit Voltage	Max. Input Voltage
Diod	1.000V	0.001V	10%	Around 1.5V	1000V rms

Measurement	Range	Resolution	Accuracy	Remark	Max. Input Voltage
Capacitance	50.00nF	0.01nF	1.5%+15	Accuracy is subject to press REL. ↴ to zero set before measurement.	1000V rms
	500.0nF	0.1nF	2.0%+5		
	5.000uF	0.001uF	5.0%+5		
	50.00uF	0.01uF			
100.0uF	0.1uF				

Measurement	Range	Resolution	Accuracy	Remark	Max. Input Voltage
Frequency	5.000Hz	0.001Hz	0.1%+3	Accuracy based on square wave	1000V rms
	50.00Hz	0.01Hz			
	500.0Hz	0.1Hz			
	5.000kHz	0.001kHz			
	50.00kHz	0.01kHz			
	500.0kHz	0.1kHz			
5.000MHz	0.001MHz				

Measurement	Range	Resolution	Accuracy (Sine Wave)	Remark	Max. Input Current	
AC	μA	400.0μA	0.1μA	1%+5	Frequency range 40Hz~500Hz	400mA fuse 0.63A / 1000V
		4000μA	1μA			
	mA	40.00mA	0.01mA			
		400.0mA	0.1mA			
	A*	4.000A	0.001A			10A fuse 10A / 1000V
		10.00A	0.01A			

*11 ~ 20A stands with 30 sec. max.

Measurement	Range	Resolution	Accuracy	Max. Input Current	
DC	μA	400.0μA	1%+3	400mA fuse 0.63A / 1000V	
		4000μA			1μA
	mA	40.00mA			0.01mA
		400.0mA		0.1mA	
	A*	4.000A		0.001A	10A fuse 10A / 1000V
		10.00A		0.01A	

*11 ~ 20A stands with 30 sec. max.

Measurement	Range	Resolution	Accuracy
Temp K-type	-55.0~0.0°C	0.1°C	2.0%+2°C
	0.0~50.0°C		±2°C
	50.0~700°C	0.1/1°C	2.0%+1°C

*Operation Condition : 0°C~50°C (32°F~122°F) / Below 80% R.H. (no condensation)



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