

Digital Multimeter DM6K2

FEATURES

- 6000 Count Trms measurement LCD display with pleasant blue backlit.
- Auto ranging.
- 15 minutes Auto power off facility provided to save battery life.
- 60 position Analog bar graph for trend indication.
- Highly linear Readings.
- Data Hold, Range, Relative measurement facility.
- Resistance, Diode and Continuity < 30Ω.
- Selectable Centigrade and Fahrenheit readout Temperature measurement.
- Polycarbonate, Rugged, Dust proof and fire retardant case for high temperature endurance.

General :

- Display : 6000 Count LCD display with blue backlit.
- ▶ Polarity : Automatic
- ▶ Update Rate : 3 per second nominal
- ▶ Sensing : Trms sensing
- ▶ Dimensions (L x W x H) : 94 x 36 x 205 mm. approx.
- ▶ Weight : 450 g. approx.
- ▶ Standard Accessories : Pair of leads, User Manual, Battery Installed, Carrying Bag.
- ▶ Optional Accessory : Pair of leads, K type thermocouple

Environmental :

- Operating Temperature : 0°C to 50°C
- ▶ Storage Temperature : -20°C to 60°C
- ▶ Relative Humidity : 80% at 5°C to 31°C ,
50 % at 31°C to 40°C non – condensing

Power :

- Power Supply : 9 V 6F22 or equivalent
- ▶ Power Consumption : 8 mA Typically
- ▶ Low Battery Indication : 'Lo Bat' is displayed. Below 6.0V approx.
- ▶ Auto Power OFF : 15 minutes Idle Sleep mode consumption 10 Micro amp. approx.

Over Load Protection :

- Fuse protection for mA Input Terminal : 0.8A/ 600V fast blow type ceramic fuse
- ▶ Fuse Protection for 20A Input Terminal : 20A/600V fast blow type ceramic fuse
- ▶ V/Ω/D/Con : 440 V DC/AC RMS

Safety :

- Transient Protection : 8 kV (1.2 /50µs Surge) as per IEC 1010.1-92

Accuracy :

- Accuracy is valid from 10% of range to 95% of the range.
- ▶ Accuracy is specified as ± % of reading and is valid at 25°C ± 3°C, 55% ± 10% RH.
- ▶ (It is recommended that calibration equipment used to verify the accuracy of the instrument should be 10 times more accurate.)



Specifications (Trms)

• DC Voltage :

Range	Resolution	Max. Reading	Accuracy \pm (Reading +Digit)	Overload protection
600 mV	0.1 mV	599.9 mV	\pm (0.5% + 3 digit)	1050V DC/AC RMS
6 V	1 mV	5.999 V	\pm (0.5% + 3 digit)	
60 V	10 mV	59.99 V	\pm (0.5% + 3 digit)	
600 V	100 mV	599.9 V	\pm (0.5% + 3 digit)	
1000 V	1 V	1000 V	\pm (0.8% + 3 digit)	

Input impedance: 10M ohms approx

• DC mv :

Range	Resolution	Max. Reading	Accuracy \pm (Reading +Digit)	Overload protection
60 mV	0.01 mV	59.99 mV	\pm (0.5% + 3 digit)	440V
600 mV	0.1 mV	5.999 V	\pm (0.5% + 3 digit)	

Input impedance: \geq 1000M ohms approx

• AC Voltages (50Hz to 500Hz) :

Range	Resolution	Max. Reading	Accuracy \pm (Reading + Digit)	Overload protection
6 V	1 mV	5.999 V	\pm (1% + 5)	1050V DC/AC RMS
60 V	10 mV	59.99 V	\pm (1% + 5)	
600 V	100 mV	599.9 V	\pm (1% + 5)	
750 V	1 V	750 V	\pm (1% + 8)	

Input impedance: 10M ohms approx.

• AC mV (50Hz to 500Hz) :

Range	Resolution	Max. Reading	Accuracy \pm (Reading + Digit)	Overload protection
60 mV	0.01 mV	59.99 mV	\pm (1 % + 5)	440V
600 mV	0.1 mV	599.9 mV	\pm (1 % + 5)	

Input impedance: \geq 1000M ohms approx.

• OHMS RANGES :

Range	Resolution	Max. Reading.	Accuracy \pm (Reading + Digit)	Overload protection
600 Ω	0.1 Ω	599.9 Ω	\pm (0.5 % + 3)	440V DC/AC RMS
6 K Ω	1 Ω	5.999 K Ω	\pm (0.5 % + 3)	
60 K Ω	10 Ω	59.99 K Ω	\pm (0.5 % + 3)	
600 K Ω	100 Ω	599.9 K Ω	\pm (0.5 % + 3)	
6 M Ω	1 K Ω	5.999 M Ω	\pm (1% + 5)	
60 M Ω	10 K Ω	59.99 M Ω	\pm (3 % + 5)	

• DC CURRENT RANGES :

Range	Resolution	Max. Reading	Accuracy \pm (Reading + Digit)	Overload protection
60 mA	0.01 mA	59.99 mA	\pm (1% + 5)	0.8A DC/AC Fuse Protection
600 mA	0.1 mA	599.9 mA	\pm (1% + 5)	
6 A	1 mA	5.999 A	\pm (1% + 5)	20A/600V Fuse Protection
20 A	10 mA	20.00 A	\pm (1.2% + 5)	

• AC CURRENT RANGE (50Hz to 500Hz)

Range	Resolution	Max. Reading	Accuracy \pm (Reading + Digit)	Overload protection
60 mA	0.01 mA	59.99 mA	\pm (1.2% + 5)	0.8A DC/AC Fuse Protection
600 mA	0.1 mA	599.9 mA	\pm (1.2% + 5)	
6 A	1 mA	5.999 A	\pm (1.2% + 5)	20A/600V Fuse Protection
20 A	10 mA	20.00 A	\pm (1.5% + 5)	

• DIODE TEST :

Open Circuit Voltage	Test Current
\leq 2.0 VDC	0.8mA approx.

• CONTINUITY TEST :

RANGE:
Gives audible beep when Resistor is below 30 Ω .

• OPTIONAL :

K- TYPE THERMOCOUPLE *

RANGE	ACCURACY
- 200 $^{\circ}$ C to 1200 $^{\circ}$ C	\pm (2% + 3 $^{\circ}$ C)