



### **Description**

A Multifunction Digital Multimeter with NCV Detection & USB out for data logging on to PC.

#### **Features**

- 4 Digit, 20mm height, 4000 count LCD display with backlight
- AC/DC Voltage, AC/DC Current, Resistance, Capacitance, Frequency and Duty Cycle measurements
- · Diode test
- · Audible continuity
- · NCV Detection
- · Auto/Manual Ranging
- · Relative measurement
- · Data hold
- · Low battery indication and overload protection
- · Win XP & 7 Compatible software
- Safety: CAT IV 600V

## **Specifications**

Operating Power Supply : 9V, 6F22 battery.

Battery low voltage indication : LCD displays "=="" symbol

Auto off time : 30 min.

Temperature Coefficient : less than 0.1 × accuracy/°C

Operating Temperature : 0°C to +40°C
Storage Temperature : -10°C to +50°C

Dimension : 175mm×86mm×52mm

Weight : 372g

### **Technical Indicators**

Environment temperature: 23+5°C, relative humidity (RH): <75%

#### **DC Voltage**

Range	Resolution	Accuracy	
400mV	0.1mV	±(0.8% reading + 3 digits)	
4V	0.001V		
40V	0.01V	)   (0.5% ====================================	
400V	0.1V	±(0.5% reading + 5 digits)	
600V	1V		

Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands





Input impedance: 10MΩ

Overload protection: 400mV measuring range: 250V DC or AC (RMS),

4V-600V measuring range: 600V DC or 600V AC (RMS)

Maximum input voltage: 600V DC

## **AC Voltage**

Range	Resolution	Accuracy	
400mV	0.1mV	±(1% reading + 5 digits)	
4V	0.001V		
40V	0.01V	±(0.8% reading + 5 digits)	
400V	0.1V		
600V	1V	±(1.2% reading+ 3 digits)	

Input impedance: 10MΩ

Overload protection: 400mV measuring range: 250V DC or AC (RMS),

4.0V-600V measuring range: 600V DC or 600V AC (RMS)

Maximum input voltage: 600V AC (RMS)

Frequency range: 50-60Hz

#### Resistance

Range	Resolution	Accuracy	
400Ω	0.1Ω		
4kΩ	0.001kΩ		
40kΩ	0.01kΩ	±(1% reading + 5 digits)	
400kΩ	0.1kΩ		
4ΜΩ	0.001ΜΩ		
40ΜΩ	0.01ΜΩ	±(1.2% reading + 15 digits)	

Open circuit voltage: about 0.4V

Overload protection: 250V DC or AC (RMS)

## Capacitance

Range	Resolution	Accuracy
50nF	0.01nF	
500nF	0.1nF	
5µF	0.001µF	±(3% reading + 5 digits)
50µF	0.01µF	
100μF	0.1µF	

Overload protection: 250V DC or AC (RMS)





### **Diode Test**

Range	Resolution	Function	
<b>→</b>	0.001V	Display approximate diode forward voltage value	

Forward DC current is about 1mA Backward DC voltage is about 1.5V Overload protection: 250V DC or AC (RMS)

## **Circuit Continuity Test**

Range	Resolution	Function	
01))	0.1Ω	If the resistance of circuit to be measured is less than $50\Omega \pm 20\Omega$ . the meter's built-in buzzer will sound.	

Open circuit voltage is about 0.4V Overload protection: 250V DC or AC (RMS)

## **Frequency**

Pass Hz grade

Range	Resolution	Accuracy
5Hz	0.001Hz	
50Hz	0.01Hz	
500Hz	0.1Hz	
5kHz	0.001kHz	±(0.5% reading + 2 digits)
50kHz	0.01kHz	
500kHz	0.1kHz	
5MHz	1kHz	

Overload protection: 250V DC or AC (RMS) Measurement signal: Vpp=3V AC signal

### **Duty Ratio**

Range	Resolution	Accuracy
0.1% ~ 99.9%	0.1%	±2% +5

## **DC Current**

Range	Resolution	Accuracy
400µA	0.1μΑ	
4000µA	1μΑ	±(0.8% reading+ 2 digits)
40mA	10µA	

Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands





Range	Resolution	Accuracy
400mA	100μΑ	±(0.8% reading+ 2 digits)
10A	10mA	±(2.0% reading+ 5 digits)

Overload protection: µA and mA grade: F1 :FF 400mA H 1 000V,

A grade: F2:FF 10A H 600V.

When measuring current is greater than SA, the continuous measurement time should not be more than 10 seconds. After measuring, disconnect the current.

#### **AC Current**

Range	Resolution	Accuracy
400µA	0.1μΑ	
4000µA	1μΑ	1/1 E0/ reading 1 2 digital
40mA	10μΑ	±(1.5% reading+ 2 digits)
400mA	100μΑ	
10A	10mA	±(3% reading+ 5 digits)

Overload protection: µA and mAgrade: F1 :FF 400mA H 1 000V,

A grade: F2:FF 10A H 600V. Frequency range: 50 - 60Hz

When measuring current is greater than SA, the continuous measurement time should not be more than 10 seconds. After

measuring, disconnect the current.

### **Part Number Table**

Description	Part Number
Digital Multimeter, Auto, Manual, $66M\Omega$	D03041

Important Notice: This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. DURATOOL is the registered trademark of Premier Farnell Limited 2019.

Newark.com/exclusive-brands Farnell.com/exclusive-brands Element14.com/exclusive-brands

