

**EX** **Electronix**  
**EXPRESS**

**01V79**



**SPECIFICATIONS****GENERAL SPECIFICATIONS**

Display mode: LCD displaying.


Max. Indication :3999( 3 3/4 ) , auto polarity indication

Measuring method: ----

Dual-slop integrating A/D converter system.

Sampling rate: Approx. 3times/second

Over range indication: “ OL”

Low battery: The “” displays.

Operating environment: ----

Temperature (0 ~ 40)□, humidity<75%RH.

Power: 9V battery.

Dimension: 190mm×88.5mm ×27.5mm.

Weight: approx 420g(include battery).

Accessories: -----

Operation manual ,holster, gift box, TP01 thermocouple, test leads, 9V battery.

**ELECTRICAL SPECIFICATIONS**

Accuracy is  $\pm(\text{RDG} \times a\% + \text{the lowest digit})$  at(23±5)□,<75%RH.

**DC Voltage**

Range	Accuracy	Resolution
400mV	$\pm(0.5\%+4)$	0.1mV
4V		1mV
40V		10mV
400V		100mV
1000V	$\pm(1.0\%+6)$	1V

Input impedance: 400mV range>40MΩ other range: 10MΩ

Overload protection: 1000V DC or 750V AC peak value

**DC mV**

Range	Accuracy	Resolution
400mV	$\pm(0.5\%+4)$	0.1mV

**AC mV ( True RMS)**

Range	Accuracy	Frequency range	Resolution
400mV	$\pm(1.6\%+8)$	40Hz-1kHz	0.1mV

**ACV ( True RMS)**

Range	Accuracy	Frequency Range	Resolution
4V	$\pm(0.8\%+10)$	40Hz-1kHz	1mV
40V			10mV
400V			100mV
750V			1V

Input impedance: 400mV range>40MΩ; other range: 10MΩ

Overload protection: 1000V DC/750V AC peak value.

Frequency response: 40Hz-1kHz( apply to standard sine wave and triangular wave.)

Display: True RMS (the wave more than 200Hz is for reference only )

**DCA**

Range	Accuracy	Resolution
400uA	$\pm(1.0\%+10)$	0.1uA
4000uA		1uA
40mA	$\pm(1.2\%+8)$	10uA
400mA		100uA
10A	$\pm(1.2\%+10)$	10mA

Max. measuring voltage drop: Full scale mA range: 400mV; A range : 100 mV

Max. input current: 10A (less than 10 seconds).

Overload protection: 0.5A/250V fuse, 10A/250V fuse.

**ACA (True RMS)**

Range	Accuracy	Frequency Range	Resolution
400uA	$\pm(1.5\%+10)$	40Hz-1kHz	0.1uA
4000uA			1uA
40mA			10uA
400mA			100uA
10A			10mA
	$\pm(2.0\%+15)$		

Max. measuring voltage drop: Full scale mA range: 400mV ; A range: 100mV

Max. input current: 10A (less than 15 seconds).

Overload protection: 0.5A/250V fuse, 10A/250V fuse

Frequency response: 40Hz-1kHz; ( apply to standard sine wave and triangular wave. the wave more than 200Hz is for reference only)

**Resistance**

Range	Accuracy	Resolution
400 $\Omega$	$\pm(0.8\%+5)$	0.1 $\Omega$
4k $\Omega$		1 $\Omega$
40k $\Omega$	$\pm(0.8\%+4)$	10 $\Omega$
400k $\Omega$		100 $\Omega$
4M $\Omega$		1k $\Omega$
40M $\Omega$	$\pm(1.2\%+10)$	10k $\Omega$

Overload protection: 250V DC/AC peak value

Open circuit voltage: 400mV

Note: at 400  $\Omega$  range, the test leads should be short-circuit, and measure the down-lead resistance ,then, subtract from the real measuring.

**Capacitance**

Range	Accuracy	Resolution
10nF	$\pm(5.0\%+20)$	10pF
100nF		100pF
1u F	$\pm(3.5\%+8)$	1nF
10uF		10nF
100uF		100nF
1mF/10mF/100 mF	$\pm(5.0\%+10)$	1 uF/10 uF/100 uF

Overload protection : 250V DC/AC peak value

**Frequency**



Range	Accuracy	Resolution
100Hz	$\pm(0.5\%+10)$	0.01Hz
1000Hz		0.1Hz
10kHz		1Hz
100kHz		10Hz
1MHz		100Hz
30MHz		1kHz

Input sensitivity: 1.5V

Overload protection: 250V DC/AC peak value

**Diode and continuity Test**

Range	Displaying value	Test Condition
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	Positive voltage drop of diode	The positive DC Current is approx 1.5mA. negative voltage is approx 3V.
	Buzzer sounds ,the resistance Is less than $40 \pm 30 \Omega$ .	Open circuit voltage: 3V

Overload Protection : 250V DC/AC peak value

Warning: do not input voltage at the range for safety.

**Temperature**

Range	Displaying value	Test condition
$(-20-1000)^\circ\text{C}$	$<400^\circ\text{C} \pm(1.0\%+5)$ $\geq 400^\circ\text{C} \pm(1.5\%+15)$	$1^\circ\text{C}$
$(-4-1832)^\circ\text{F}$	$<752^\circ\text{F} \pm(1.0\%+5)$ $\geq 752^\circ\text{F} \pm(1.5\%+15)$	$1^\circ\text{F}$

Sensor: K type

Warning: do not input voltage at the range for safety.