



## Meter

TEST &  
MEASURING  
INSTRUMENTS

## Bench Type Multimeter

# Protek 4000

### Features

True RMS Function(AC+DC)

Frequency, Capacitance, Pulse Width, Duty, Temperature

Peak to Peak, Wide-Band, Low Voltage, Zener-Diode Measurement  
50,000 Counts, Dual Display

Resolution : 0.01mV, 0.01 $\Omega$

DC Voltage Accuracy (0.05%)

GO-NoGO Function

Memory Location Function

RS-232C Interface





## Specification

1	DC/V	Range	500.00mV, 2500.0mV		5.0000V, 50.000V, 500.00V, 1000.0V						
		Accuracy	0.05%+5d								
2	AC/V	Range	500.00mV		5.0000V, 50.000V, 500.00V, 750.0V						
		Accuracy	0.75%+20d								
3	AC+DC/V	Range	500.00mV		5.0000V, 50.000V, 500.00V, 750.0V						
		Accuracy	1.5%+50d		2%+50d						
4	DC/A	Range	5000.0µA		500.00mA		10.000A				
		Accuracy	0.2%+5d		0.5%+5d						
		SHUNT	1000ohm		10hm		10mohm				
5	AC/A	Range	5000.0µA		500.00mA		10.000A				
		Frequency	50Hz to 1kHz								
		Accuracy	0.75%±20d for <40000count 1% for >40000count								
6	AC+DC/A	Range	5000.0µA		500.00mA		10.000A				
		Frequency	DC to 1kHz								
		Accuracy	1.5%±50d for <30000count 2% for >30000count								
7	Ohm	Range	50.000hm		5.0000k, 50.000k, 500.00k, 5.0000M ohm		50.000M ohm				
		Resolution	0.010hm		0.10hm, 10hm, 100hm, 1000hm		1k				
		Accuracy	1.0%+20d		0.2%+5d		1.0%+10d				
8	LV Ohm	Range	5.0000k, 50.000k, 500.00k, 5.0000M ohm				50.000M ohm				
		Resolution	10hm, 100hm, 1000hm, 1kohm				10k				
		Accuracy	0.5%+5d				2.5%+10d				
9	nS	Range	500.0nS								
		Resolution	0.1nS								
		Accuracy	3.0%+5d								
10	Continuity	Range	5kohm		50kohm		500kohm		5Mohm		
		Input	SHORT	OPEN	SHORT	OPEN	SHORT	OPEN	SHORT	OPEN	
		Resolution	BUZZ	BUZZ	BUZZ	BUZZ	BUZZ	BUZZ	BUZZ	BUZZ	
		Accuracy	<50hm	>150hm	<500hm	>1000hm	<5000hm	>1kohm	<5khom	10kohm	
11	Zener Diode	Range	15.000V								
		Accuracy	5%+10d								
		Current	1mA								
		Open Volt	15 to 22V								
12	Capacitance	Range	5.000nF	50.00nF	500.0nF	5.000µF	50.00µF	500.0µF	5.000mF	-	
		Resolution	1pF	10pF	100pF	1nF	10nF	100nF	1µF	-	
		Accuracy	5%+10d	2%+10d		2%+5d		3%+10d			
13	Frequency	Range	50.00Hz		500.0Hz		50.000kHz		500.00kHz	5.0000kHz	
		Resolution	0.01Hz		0.1Hz		1Hz		10Hz	100Hz	
		Accuracy	0.01%+5d								
14	Pulse Width	Range	200.00ms								
		Resolution	10µSec.								
		Accuracy	0.1%+5d								
15	Duty Cycle	Range	100%								
		Resolution	0.01%								
		Accuracy	0.1%+5d								
16	Temperature	Range	20~0°C		0~150°C	150~1200°C	°F=32+(9/5x°C)		°K=°C+273.1		
		Resolution	0.1°C				0.1°F		0.1°K		
		Accuracy	±3°C		±2°C	±2%	°F=32+(9/5x°C)		°K=°C+273.1		
17	±Peak Detection	Range	DCmV, DCV, DCµA, DCmA, DCA								
		Accuracy	Less than 10% for peak with > 5ms of duration and with > 10% of full scale of each range								