

New
Product



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Digital Multimeter

Protek D705

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Compact true-rms meter for field service technicians.

The Protek D705 is the solution for a wide variety of electrical and electronic testing applications.

It has to set with a combination of precision, ease-of-use, safety and reliability.

Features

- True RMS
- 25 segments bar graph
- Back-lit display (White LED)
- AC/DC μ A measurements
- Capacitance measurements
- Data Hold and Range Hold
- Auto Power Off function (30min)
- Diode and Continuity Beeper tests
- Frequency and Duty cycle measurements
- MAX/MIN/AVG mode (Sampling rate : 100ms)
- 5000 count LCD display (Black & White STN)
- IEC 1010-2-032, CATIII 1000V Safety protection
- K-Type thermocouple temperature measurements
- Measures DC Voltage to 1000V, AC Voltage to 1000V and Resistance to 40M Ω



Specifications

DC Voltage	Range	500mV	5V	50V	500V	1000V		
	Resolution	0.1mV	0.001mV	0.01V	0.1V	1V		
	Accuracy	$\pm(0.09\%+2d)$	$\pm(0.09\%+5d)$	$\pm(0.09\%+2d)$	$\pm(0.09\%+2d)$	$\pm(0.09\%+2d)$		
AC Voltage	Range	500mV	5V	50V	500V	1000V		
	Resolution	0.1mV	0.001mV	0.01V	0.1V	1V		
	Accuracy	(45Hz ~ 500Hz)	$\pm(0.8\% + 5d)$ True RMS					
		(500Hz ~ 1KHz)	$\pm(1.0\% + 5d)$ True RMS					
DC Current	Range	500 μ A	5000 μ A	50mA	400mA	5A	10A	
	Resolution	0.1 μ A	1 μ A	10 μ A	100 μ A	1mA	10mA	
	Accuracy	$\pm(1.0\% + 3d)$						
AC Current	Range	500 μ A	5000 μ A	50mA	400mA	5A	10A	
	Resolution	0.1 μ A	1 μ A	10 μ A	100 μ A	1mA	10mA	
	Accuracy	(45Hz ~ 500Hz)	$\pm(0.8\% + 5d)$ True RMS				$\pm(1.5\%+10d)$ True RMS	$\pm(0.8\%+5d)$ True RMS
		(500Hz ~ 1KHz)	$\pm(2.0\% + 5d)$ True RMS				$\pm(2.0\%+10d)$ True RMS	$\pm(2.0\%+5d)$ True RMS
Resistance	Range	500 Ω	5k Ω	50k Ω	500k Ω	5M Ω	50M Ω	
	Resolution	0.1 Ω	0.001k Ω	0.01k Ω	0.1k Ω	0.001M Ω	0.01M Ω	
	Accuracy	$\pm(1.0\% + 5d)$						
Diode Test	Range	2V						
	Resolution	0.001V						
	Accuracy	$\pm(2.0\% + 5d)$						
Temperature	Range	-40 $^{\circ}$ C ~ 400 $^{\circ}$ C				-40 $^{\circ}$ F ~ 752 $^{\circ}$ F		
	Resolution	0.1 $^{\circ}$ C				0.1 $^{\circ}$ F		
	Accuracy	$\pm(3.0\% + 3.0^{\circ}$ C)				$\pm(3.0\% + 5.4^{\circ}$ F)		
Frequency	Range	9.999Hz	99.99Hz	999.9Hz	9.999kHz	99.99kHz	999.9kHz	
	Resolution	0.001Hz	0.01Hz	0.1Hz	1Hz	10Hz	100Hz	
	Accuracy	$\pm(0.1\% + 3d)$						
Sensitivity	Vpp \pm 300mV (Square wave input)							
Duty	Range	1.0% ~ 99.0%						
	Resolution	0.1%						
	Accuracy	0.5Hz to 300KHz (Pulse width > 3 μ s)				(0.1% + 0.05% per KHz + 1 count) for \pm 600mV p-p Square wave input		
Capacitance	Range	40nF	400nF	4 μ F	40 μ F	400 μ F	4000 μ F	
	Resolution	0.01nF	0.1nF	0.001 μ F	0.01 μ F	0.1 μ F	1 μ F	
	Accuracy	$\pm(3.0\% + 10d)$						
Continuity Test	Range	500 Ω	Threshold	Response time				
	Resolution	0.1 Ω						
	Accuracy	$\pm(1.0\% + 5d)$	Approx. 25 Ω	1msec				