



Product Datasheet

English

Stock No: 146-9098

RS PRO True RMS Digital Multimeter

EN



Specifications

Accuracy is stated at 65°F to 83°F(18°C to 28°C), less than 70% 1- relative humidity

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
AC Voltage	6V	1mV	$\pm(0.8\% + 8)$
	60V	10mV	
	600V	0.1V	
	1000V	1V	$\pm(1.0\% + 3)$
Input Protection: 1000V AC RMS or 1000V DC Accuracy specified from 5% to 100% of the measuring rang. AC voltage accuracy bandwidth: 45Hz to 1000Hz Distorted, pulsed, triangle or trapezia waveform. Accuracy: $\pm(10\%rdg + 10dgt)$			
Low Z AC Voltage	6V	1mV	$\pm(3.0\% + 40)$
	60V	10mV	
	600V	0.1V	
Input Protection: 600V AC RMS or 600V DC Accuracy specified from 5% to 100% of the measuring rang. Input Impedance: Approx. 3k Ω			
DC Voltage	600mV	0.1mV	$\pm(0.5\% + 8)$
	6V	1mV	$\pm(0.5\% + 5)$
	60V	10mV	
	600V	0.1V	
1000V	1V	$\pm(0.8\% + 3)$	
Input Protection: 1000V AC RMS or 1000V DC			
Low Z DC Voltage	600mV	0.1mV	$\pm(3.0\% + 40)$
	6V	1mV	
	60V	10mV	
	600V	0.1V	
Input Protection: 600V AC RMS or 600V DC Input Impedance: Approx. 3k Ω			
Function	Range	Resolution	Accuracy \pm (% of reading + digits)

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Frequency (electrical)	9.999Hz	0.001Hz	\pm (1.0% + 5)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	9.999kHz	1Hz	
Input Protection: 600V AC RMS or 600V DC Sensitivity: < 8V RMS			
Duty Cycle	20.0% to 80.0%	0.1%	\pm (1.2% + 2)
Input Protection: 600V AC RMS or 600V DC Pulse Width: 0.1 to 100mS Frequency Range: 5Hz to 10kHz Sensitivity: > 8V RMS			
AC Current	600 μ A	0.1 μ A	\pm (1.5% + 3)
	6000 μ A	1 μ A	
	60mA	10 μ A	
	600mA	0.1mA	
	10A	10mA	\pm (2.0% + 5)
Overload Protection: μ A, mA ranges: 800mA/1000V Fuse 10A range: 10A/1000V Fuse Accuracy specified from 5% to 100% of the measuring rang. AC current bandwidth: 45 to 500Hz Distorted, pulsed, triangle or trapezia waveform. Accuracy: \pm (10%rdg + 10dgt)			
DC Current	600 μ A	0.1 μ A	\pm (3.0% + 40)
	6000 μ A	1 μ A	
	60mA	10 μ A	
	600mA	0.1mA	
	10A	10mA	10A \pm (1.5% + 5)
Overload Protection: μ A, mA ranges: 800mA/1000V Fuse 10A range: 10A/1000V Fuse			

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Resistance	600 Ω	0.1 Ω	\pm (1.0% + 5)
	6k Ω	1 Ω	
	60k Ω	10 Ω	
	600k Ω	100 Ω	
	6M Ω	1k Ω	\pm (2.0% + 10)
	60M Ω	10k Ω	
Input Protection: 600V AC RMS or 600V DC			
DC Voltage	600mV	0.1mV	\pm (0.5% + 8)
	6V	1mV	\pm (0.5% + 5)
	60V	10mV	
	600V	0.1V	
	1000V	1V	\pm (0.8% + 3)
Input Protection: 1000V AC RMS or 1000V DC			
Low Z DC Voltage	600mV	0.1mV	\pm (3.0% + 40)
	6V	1mV	
	60V	10mV	
	600V	0.1V	
Input Protection: 600V AC RMS or 600V DC Input Impedance: Approx. 3k Ω			
Frequency (electrical)	9.999Hz	0.001Hz	\pm (1.0% + 5)
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	
	9.999kHz	1Hz	
Input Protection: 600V AC RMS or 600V DC Sensitivity: < 8V RMS			

Function	Range	Resolution	Accuracy \pm (% of reading + digits)
Duty Cycle	20.0% to 80.0%	0.1%	\pm (1.2% + 2)
Input Protection: 600V AC RMS or 600V DC Pulse Width: 0.1 to 100mS Frequency Range: 5Hz to 10kHz Sensitivity: > 8V RMS			
Capacitance	60nF	10pF	\pm (5.0% + 35)
	600nF	100pF	\pm (3.0% + 5)
	6 μ F	0.001 μ F	
	60 μ F	0.01 μ F	
	600 μ F	0.1 μ F	
	6000 μ F	1 μ F	\pm (5.0% + 5)
Input Protection: 600V AC RMS or 600V DC			
Temperature	-4 F to 1400°F	0.1°F	\pm (2.0% + 9°F)
	-20°C to 760°C	0.1°C	\pm (2.0% + 5°C)
Input Protection: 600V AC RMS or 600V DC			