

Oscilloscope Specifications

Horizontal

Sample Rate	20 Meg samples per second
Record Length	512 in single shot and glitch capture modes, 256 in all other modes. (pixels)
Samples/Division	20
Update Rate	Real Time
Modes	Single Shot
Accuracy	±0.01%
Sweep Rate	1µS to 1S in 1, 2, 5 sequence

Vertical

Bandwidth	500 kHz
Resolution	8 Bit
Channels	Single
Coupling	AC, DC
Input Impedance	1.11M Ohm
Accuracy	±3%
Max. Input Volts	1000 Vp-p

Triggering

Type	Internal
Coupling	AC, DC, Glitch Capture
Slope	+ or - edge
Internal Trigger	
Sensitivity	2/20 Division

Other

Glitch Capture	Over 0.05 Horizontal Division, 0.25 Vertical Division Spike. Minimum Time 1µS.
Waveform Memory	8 Shot
REF Waveform	
Memory	43 Shot
Setup Memory	8 Shot

Digital Multimeter Specifications

DC Voltage

Range	Resolution	Accuracy	Impedance
400mV	0.1mV	±0.3% of reading, ±2 digits	1M
4V	0.001V		
40V	0.01V		
400V	0.1V		
1000V	1V		

AC Voltage

Range	Resolution	Accuracy			Impedance
		50-450Hz	.45-5kHz	5-20kHz	
300mV	0.1mV	±(.75%+5)	N/A	N/A	1.11M
3V	0.001V				
30V	0.01V				
300V	0.1V				
750V	1V		N/A		

* Digit fluctuates at AC 20Hz-40Hz range 1-2 minutes after input.

DC Amperage

Range	Resolution	Accuracy	Overload Protection
400µA	0.1µA	±0.5% of reading, ±5 digits	Fuse * (fast blow) F600V, 0.5A, 31CM
4000µA	1µA		
40mA	0.01mA		
400mA	0.1mA		
4A	0.001A	±0.75% of reading, ±5 digits	F600V, 10A, 31CM
10A	0.01A		

AC Amperage

Range	Resolution	20-50Hz	50Hz-3kHz	3-10kHz	10-30kHz
300 μ A	0.1 μ A	±1.0% rdg, ±10 digits	±0.75% rdg, ±10 digits	±2.0% rdg, ±20 digits	±2.0%rdg ±40 digits
3000 μ A	1 μ A				
30mA	0.01mA				
300mA	0.1mA				
3A	0.001A			N/A	N/A
10A	0.01A				

Ohm (Resistance, Ω)

Range	Resolution	Accuracy	Overload Protection
400 Ω	0.1 Ω	±(0.5% +5 digits)	600V DC or AC Peak
4k Ω	0.001k Ω		
40k Ω	0.01k Ω		
400k Ω	0.1k Ω		
4M Ω	0.001M Ω	±0.5% of reading, ±10 digits	
30M Ω	0.01M Ω		

Continuity Buzzer

Test Voltage	Threshold	Overload Protection
3V	100 digits	600V DC or Peak AC

⚠WARNING

Use only correct size, voltage and current rated fuses.

Use only correct type and overvoltage category rated test leads.

Diode Test

Test Voltage	Max Test Current	Overload Protection
3V	Approx. 2.5mA	600V DC or Peak AC

RPM

Function	Range	Resolution	Accuracy
RPM	60-12,000	1RPM	±2RPM
% Duty Dwell	0.0-99.9% (30 to 19,000 RPM, Pulse Width >.5mS)		
Dwell	0.0-356.4° (30 to 19,000 RPM, Pulse Width >.5mS)		
Pulse Width	0.2-1999.9mS (30 to 19,000 RPM, Pulse Width >.5mS)		
Frequency	0.1-4000Hz (30 to 19,000 RPM, Pulse Width >.5mS)		

** Sensitivity (square wave)
 1Hz below N/A
 2Hz to 1kHz 1V
 1kHz to 2MHz 1.5V