



## AT-9956

Professional Automotive Oscilloscope DMM with TFT color LCD display AT-9996 is Professional Automotive True RMS Digital Multimeter with oscilloscope functions and TFT color LCD display, providing fast A/D converting sampling time, high accuracy, built-in datalogging and Trend Capture features. RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up. 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature( $^{\circ}\text{C}/^{\circ}\text{F}$ ), Capacitance, Continuity and Diode Check. Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition Measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic trans mission controls. Safety Conformance EN61010-1 CAT IV 600V, CAT III 1000V; 1000V input protection on all ranges 10A/1000V & 0.5A/1000V fuses protection on current ranges



Features
Large 50,000 count 320 x 240 TFT color LCD display
10MHz/50MS/s bandwidth/Real time sample rate
Logging function with TrendCapture for easy review of logged data
Bluetooth PC interface for easy data transfer & accuracy calibration
100kHz/100kHz bandwidth (voltage/current)
AC, AC+DC true-RMS measurements
Records events and trends
Saves measurements
A/D convert fast sampling time
Peak capture (records transients as fast as 250µs)
Min/Max/Average with Time stamp (records signal fluctuations)
Motor winding and low ohm (50Ω) measurement range
Low pass filter
IP Rating 67
Compatible with AC/DC clamp-on adaptor with bluetooth at mV range

Specifications			
Oscilloscope Functions			
Display Size	3.5" color LCD; 320 x 240 pixels		
Bandwidth	10MHz		
Real time sample rate	50MS/s		
Risetime	17.5ns		
Glitch Capture	50ns		
Vertical Sensitivity	20mV to 100V/div		
Vertical Resolution	8 bits		
Trigger Mode	Ferr Run, Single Shot, Edge		
Trigger Source	CH1		
Trigger Coupling	AC/DC		
Input impedance	1MΩ/20pF		
Max Input Volatge	400V(peak)		
Cursor Measurement	Voltage and time		
Automotive True RMS Multimeter Functions			
Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.07% + 5)
Temperature	-50°C to 1350°C	0.1°C	±(1.0% + 1°C)
Resistance	50MΩ	0.1Ω	±(0.05% + 2)
Capacitance	10mF	0.001nS	±(1.0% + 5)
Frequency	10MHz	0.01Hz	±(0.005% + 1)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)		±(2.5%+2d)
Dwell Angle	1CYL, 2CYL, 3CYL, 4CYL, 5CYL, 6CYL, 8CYL, 10CYL, 12CYL		±(2.5%+2d)
Duty Cycle	0.1~99.9%		±(1.5%+2d)
Period	0.1~20mS		±(3.0%+5d)
Pulse Width	0.1~10mS		±(3.0%+5d)
Diode and Continuity	Yes		
PC Interface	Bluetooth		
Power Supply	6 hours Li-ion rechargeable battery;AC Adaptor/charger		

**Size(HxWxD):** 220mm x 96mm x 60mm

**Weight:** 631g

**Accessories:**

Test leads, Li-ion batteries, Type K temperature probe, Software, gift box with carrying case.

