

Автомобильные мультиметры серии АТ

Технические характеристики

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Беларусь +375-257-127-884

Узбекистан +998(71)205-18-59

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эл.почта: mce@nt-rt.ru || сайт: <https://cem.nt-rt.ru/>

AT-205P/AT-9945/AT-9945T

Automotive Digital Multimeters

CEM

True RMS (AT-9945T)

Large LCD display

Automotive Digital Multimeter provides multi-functions:

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up
- AT-9945T is True RMS Autoranging Automotive DMM
- Oversized high contrast 4000 counts LCD display with backlight
- 13 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature (°C/°F), Capacitance, Continuity and Diode Check
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold and Relative functions
- Over-range indication
- Auto Power Off
- Fused current inputs and Overload protection on all ranges
- AT-9945/9945T measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls



EMC & LVD
EN: 61326
EN: 61010-1,
EN: 61010-02-031



Specifications

Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	$\pm(0.5\%+2d)$
Voltage AC	400mV, 4V, 40V, 400V, 700V	$\pm(0.8\%+4d)$
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	$\pm(1.2\%+2d)$
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	$\pm(1.5\%+4d)$
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	$\pm(0.8\%+3d)$
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	$\pm(2.0\%+2d)$
Dwell Angle	4, 5, 6, 8CYL	$\pm(2.5\%+2d)$
Duty Cycle	0.1~99.9%	$\pm(1.5\%+2d)$
Frequency	0.001Hz~9.99MHz	$\pm(2.0\%+2d)$
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	$\pm(3.0\%+2d)$
Capacitance	40nF, 400nF, 4uF, 40uF, 100uF	$\pm(3.0\%+2d)$
Pulse Width (9945)	0.1~10mS	$\pm(3.0\%+5d)$
Diode Check	Open circuit voltage 1.5V dc; Test current 0.3mA typical.	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.7KHz	

Size(HxWxD): AT-205P: 146mm x 66mm x 41.5mm
AT-9945/9945T: 195mm x 92mm x 38mm

Weight: AT-205P: 200g;
AT-9945/9945T: 380g

Accessories:

Rubber holster, Test leads, type K temperature Probe, Inductive pick-up and 9V battery.



True RMS (AT-9950T)



AT-9950DIS/9950T/AT-950A/950B are very versatile automotive meters and can be used for many different diagnostic works on car and truck. Many functions are offered for your choice.

- AT-9950DIS/9950T: RPM (RPM 2 Stroke or 4 Stroke mode active) measurements for automotive engines with the Inductive Pickup
- AT-950B: RPM measurement for automotive engines with the inductive Pickup
- AT-950A: RPM measurements for automotive engines with the test leads
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors and ignition

Features

	9950DIS/9950T	950A	950B
Digital display counts	3200 with Analog Bargraph	2000	2000
AC True RMS	9950T		
Auto ranging	*		
Manual ranging		*	*
Overload protection on all ranges	*	*	*
Data Hold	*		
Low battery indication	*	*	*
Inductive Pick-up	*		*



EMC & LVD
EN: 61326
EN: 61010-1,
EN: 61010-02-031

Specifications

Function	Max. Range	Resolution	Basic Accuracy	9950DIS/9950T	950A	950B
Voltage DC	600V	0.1mV	$\pm(0.5\%+2d)$		*	*
	1000V	0.1mV	$\pm(0.5\%+2d)$	*		
Voltage AC	750V	1mV	$\pm(1.0\%+2d)$	*		
Current DC	10A	0.1uA	$\pm(1.5\%+2d)$	*	*	*
Current AC	10A	0.1uA	$\pm(1.5\%+2d)$	*		
Resistance	32M Ω	0.1 Ω	$\pm(2.0\%+3d)$	32M	20M	20M
RPM (Tach)	12,000RPM	1RPM	$\pm(2.0\%+5d)$	*	10,000RPM	
Dwell Angle	2~10CYL	0.1°	$\pm(1.2\%+2d)$	*	*	*
Frequency	32kHz	0.1Hz	$\pm(1.2\%+2d)$	*		
Duty Cycle	0.1%~99.9%	0.1%	$\pm(1.2\%+2d)$	*		
Temperature	760°C/1400°F	0.1°C/°F	$\pm(3.0\%+3d)$	*		
Diode Test				*	*	*
Continuity Check				*	*	*

Size(HxWxD): AT-9950DIS/9950T : 189mm x 91mm x 31.5mm

AT-950A/AT-950B : 209mm x 43mm x 30mm

Weight: AT-9950DIS/9950T : 280g

AT-950A/AT-950B : 200g

Accessories:

9V Battery, Rubber holster and Inductive pick-up(except AT-950A)

AT-9906DIS/9965

Auto-ranging Automotive Digital Multimeters

CEM

Automotive Digital Multimeter provides multi-functions:

- RPM(RPM 2 Stroke or 4 Stroke mode active) measurement for automotive engines with 4 to 8 Cylinders using the inductive Pick-up.
- Oversized high contrast LCD display with backlight.
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors and ignition
- Data Hold , Relative functions & auto power off.
- Fused current inputs and Overload protection on all ranges.

Auto-ranging Automotive Digital Multimeter



Model AT-9906DIS

EMC & LVD

EN: 61326

EN: 61010-1, EN: 61010-02-031

Features

	9906DIS	9965
Digital display counts	3200 with Analog Bargraph	4000 with Analog Bargraph
Auto ranging	*	*
1ms Peak hold, MAX/MIN hold		*
Overload protection on all ranges	*	*
Low battery indication	*	*
Inductive Pick-up	*	*

Specifications

Function	9906DIS	9965	Basic Accuracy
Voltage DC	320mV/3.2V/32V/320V/600V	400mV, 4V, 40V, 400V, 600V	±(0.5%+2d)
Voltage AC	3.2V, 32V, 320V, 600V	400mV, 4V, 40V, 400V, 600V	±(0.8%+4d)
Current DC	320uA, 3200uA, 32mA, 320mA, 10A	400uA, 4000uA, 40mA, 400mA, 10A	±(1.2%+2d)
Current AC	320uA, 3200uA, 32mA, 320mA, 10A	400uA, 4000uA, 40mA, 400mA, 10A	±(1.5%+4d)
Resistance	320Ω, 3.2kΩ, 32kΩ, 320kΩ, 3.2MΩ, 32MΩ	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	600~4000RPM; 600~12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	0.1~99.9%	±(1.5%+5d)
Frequency	320Hz/3200Hz/32kHz	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
Capacitance		40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF	±(3.0%+2d)
Pulse Width		0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 3V dc; Test current 0.3mA typical.		
Continuity Test	Threshold 35Ω, Continuity Beeper 2kHz		

Size(HxWxD): 170mm x 79mm x 50mm

Accessories: Test leads, type K temperature Probe, Inductive pick-up, 9V battery and gift box with carrying case.

AT-9955 Automotive Digital Multimeter With IR Laser Thermometer

Automotive Digital Multimeter provides multi-functions:

- RPM measurement for automotive engines with 2 to 10 Cylinders using the inductive Pick-up.
- Oversized high contrast 4000 counts LCD display with backlight
- 14 Functions including DCV, ACV, DCA, ACA, Resistance, RPM (Tach), Dwell angle, Duty cycle, Frequency, Temperature (IR Temperature) (°C/°F), Capacitance, Continuity and Diode Check.
- Read pulse duty cycle and dwell angle for electronic fuel injection feedback carburetors, and ignition
- Data Hold, Relative functions/ Auto Power Off
- Fused current inputs and Overload protection on all ranges.
- Measures Milliseconds pulse width to test on-time of fuel injectors, idle air control motors, and electronic transmission controls.

Automotive Digital Multimeter With IR Laser Thermometer

IP67 Dust and water proof



Model AT-9955

Specifications

Function	Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	±(0.5%+2d)
Voltage AC	400mV, 4V, 40V, 400V, 700V	±(0.8%+4d)
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.2%+2d)
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	±(1.5%+4d)
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	±(0.8%+3d)
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	±(2.0%+2d)
Dwell Angle	4, 5, 6, 8CYL	±(2.5%+2d)
Duty Cycle	0.1~99.9%	±(1.5%+2d)
Frequency	0.001Hz~9.99MHz	±(2.0%+2d)
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	±(3.0%+2d)
IR Temperature	-20°C ~ 550°C/-4°F ~ 1022°F	±(3.0%+2d)
Capacitance	40nF, 400nF, 4uF, 40uF, 400uF, 4mF, 40mF	±(3.0%+2d)
Pulse Width	0.1~10mS	±(3.0%+5d)
Diode Check	Open circuit voltage 3V dc; Test current 0.3mA typical.	
Continuity Test	Threshold 30Ω, Continuity Beeper 2kHz	

Size(HxWxD): 182mm x 82mm x 55mm

Accessories: Test leads, type K temperature Probe, IR temperature probe (IR-82 optional), Inductive pick-up and 9V battery, Gift box with carrying case.

Weight: 360g

AT-9995/9995E

Professional Automotive DMM with USB Interface

CEM

AT-9995 is professional Automotive DMM with RS232 interface, AT-9995E is with wireless USB interface; It can be used for many different diagnostic works on car and truck. Many functions are offered for your choice.

Features

- Oversized high contrast 4000 counts with Bargraph backlight LCD Display
- RPM measurement for automotive engines with 1 to 12 Cylinders using the inductive pick-up
- Data Hold and Relative functions
- Max Hold and Min Hold
- Auto Power Off
- Fused current inputs and overload protection on all ranges



EMC & LVD

EN: 61326

EN: 61010-1, EN: 61010-02-031

Wireless USB Interface (RF 433MHz) (AT-9995E)

Large LCD display



Specifications

Function	Max Range	Basic Accuracy
Voltage DC	400mV, 4V, 40V, 400V, 1000V	$\pm(0.5\%+2d)$
Voltage AC	400mV, 4V, 40V, 400V, 750V	$\pm(0.8\%+4d)$
Current DC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	$\pm(1.2\%+2d)$
Current AC	400uA, 4000uA, 40mA, 400mA, 4A, 20A	$\pm(1.5\%+4d)$
Resistance	400Ω, 4kΩ, 40kΩ, 400kΩ, 4MΩ, 40MΩ	$\pm(0.8\%+3d)$
RPM(Tach)	600 ~ 4000RPM; 600 ~ 12000RPM(x 10RPM)	$\pm(2.5\%+2d)$
Dwell Angle	1CYL, 2CYL, 3CYL, 4CYL, 5CYL, 6CYL, 8CYL, 10CYL, 12CYL	$\pm(2.5\%+2d)$
Duty Cycle	0.1~99.9%	$\pm(1.5\%+2d)$
Period	0.1~20mS	$\pm(3.0\%+5d)$
Pulse Width	0.1~10mS	$\pm(3.0\%+5d)$
Frequency	30kHz	$\pm(2.0\%+2d)$
Temperature	-20°C ~ 760°C/-4°F ~ 1400°F	$\pm(3.0\%+2d)$
Diode Check	Open circuit voltage 1.5V dc typical; Test current 0.3mA typical	
Continuity Test	Threshold 30Ω, Continuity Beeper 2.7kHz	



Size(HxWxD): 197mm x 88.4mm x 41.2mm

Weight: 635g

Accessories :

Rubber holster, Test leads, type K temperature Probe, software, RS-232 cable/USB interface, Pick-up, 9V battery and gift box with carrying case.



AT-9996

Professional Automotive Oscilloscope DMM with TFT color LCD display



Bluetooth
Meterbox Pro



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

- IP67 dust and water proof
- True RMS
- Cloud computing

Model 9996

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

- TFT color LCD display
- 50000 counts



EMC & LVD

EN: 61326

EN: 61010-1, EN: 61010-02-031



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

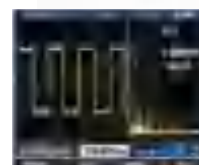
Function	Maximum	Max, resolution	Accuracy
Voltage DC	1000V	1µV	±(0.025% + 5)
Voltage AC	1000V	1µV	±(0.4% + 40)
Current DC	10A	0.01µA	±(0.15% + 2)
Current AC	10A	0.01µA	±(0.07% + 5)
Temperature	-50°C to 1350°C	0.1°C	±(1.0% + 1°C)
Resistance	50MΩ	0.1Ω	±(0.05% + 2)
Capacitance	10mF	0.001nS	±(1.0% + 5)
Frequency	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

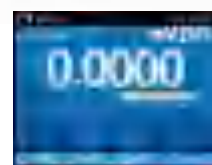
Weight: 631g

Accessories:

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



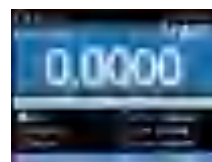
10MHz Oscilloscope Function



Fast response time



High Resolution & Accuracy



Multifunction Selectable



Trend Capture function



Help Menu



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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +375-257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: mce@nt-rt.ru || сайт: <https://cem.nt-rt.ru/>