

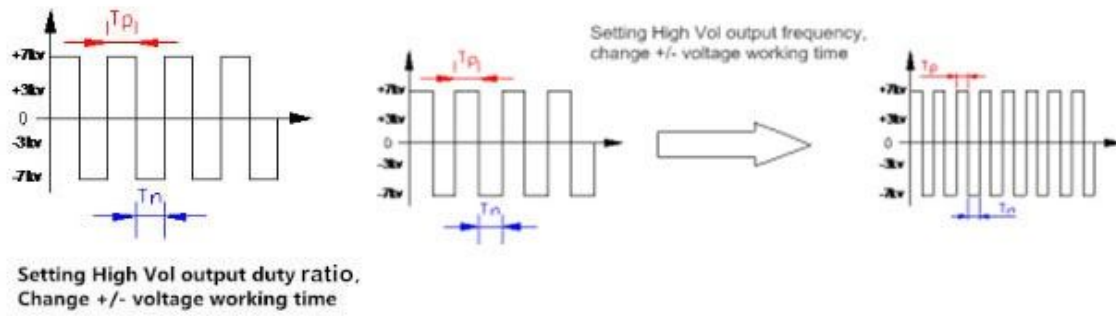


## AP-AB1208 Air Source AC Pulse Ion Bar



### Product Feature

- 1.Bar shaped and cross over static eliminator
- 2.Adjustable positive and negative ion output rate
- 3.Manufactured by using the latest patented technology of static removing
- 4.Fast speed of static removing, low ion balance and high safety
- 5.Adjustable positive and negative ion frequency
- 6.With alarm function of high voltage fault
- 7.Remote control ion out put
- 8.Shock-proof function prevent user from being electric shocked
- 9.Support integrate control ,easy to operate.

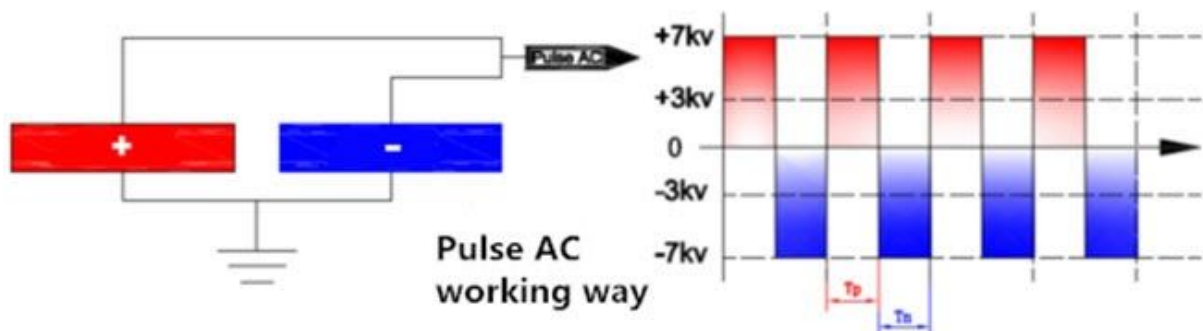


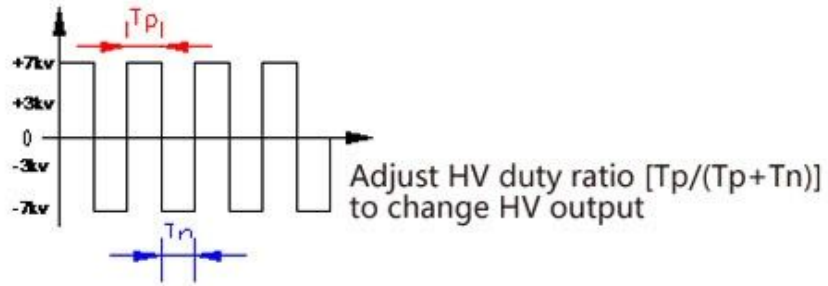
Specification

Model No.	AP-AB1208
Input Voltage	DC 24V
Input current	<600mA
Power	10W
Working Voltage	±5000V
Working method	Pulse AC
Emitter electrode	SUS
Discharge structure	Resistance coupling
Output frequency	1,3,5,10,20,30,50Hz ; (Factory setting:30Hz)
Duty Ratio	10%—90%
Working range	L*W*H : {385-410 (Probe distance 25mm) ; 460-2960 (Probe distance 50mm) }*300*1000mm
Working distance	100→1000mm
Ion balance	≤ ±30V  (AVE)
Discharge speed	≤2S
Warning indicate	Power input indicator, High Voltage indicator (Green is normal, Red is abnormal)

Status monitoring	Series network monitoring / wireless monitoring
Airflow pressure	≤0.6MPa
air source connector With throttle valve	Φ8-G1/8 Black
Working temperature	0°C-50°C
Working humidity	<70%
Dimension	L*W*H : {385-410 (Probe distance25mm) ; 460-2960 ( Probe distance50mm) }*35*78.4mm
Bar body material	Flame retardant PVC、ABS、AL、SUS
Accessories	Flexible 180° install bracket
Power adapter	GRT-240200 : DC24V 2A, Dual network port output, 123*61*40.5mm (L*W*H)
Power adapter cable length	2.5m
Warranty	1 Year
Certificate	CE

#### Working Ways (AC)





Static on object surface  
Case 1



Reduce  $T_p$  to generate less positive ion and more negative ion and neutralize the redundant positive ion on object surface.

Static on object surface  
Case 2



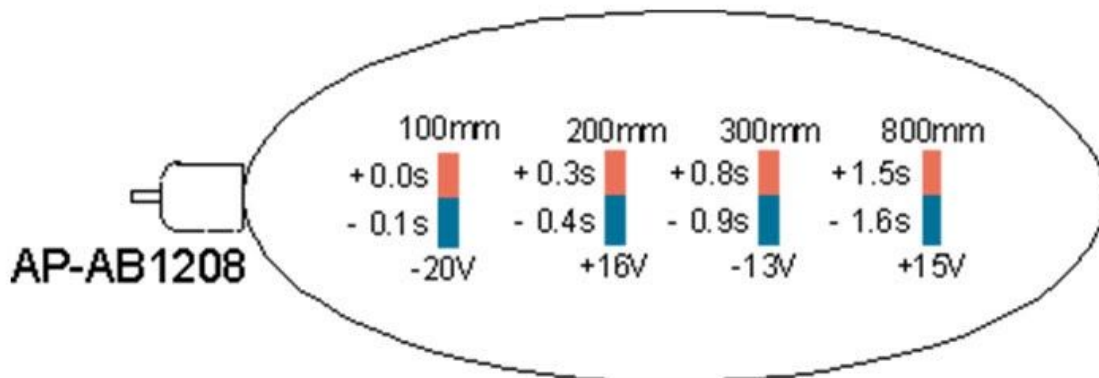
Increase  $T_p$  to generate more positive ion and less negative ion and neutralize the redundant negative ion on object surface.

Static on object surface  
Case 3



Adjust  $[T_p/(T_p+T_n)]$  proper setting to generate equal quantity of positive and negative ions and neutralize the static on object surface.

### Elimination Effect



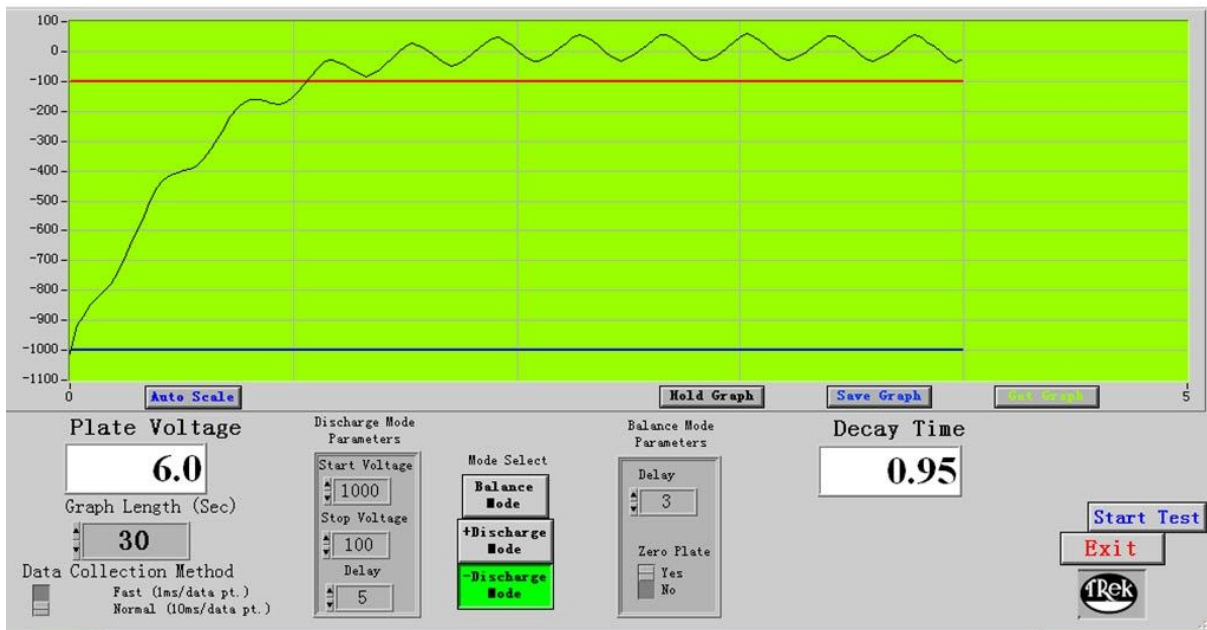
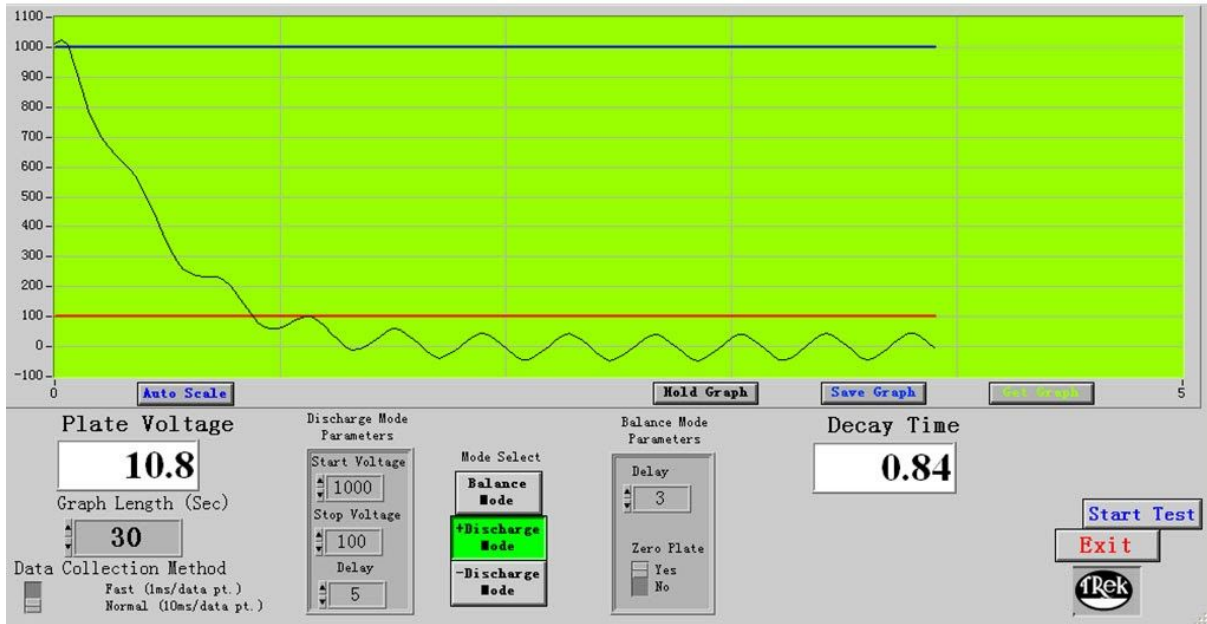
Testing instrument : 3M-711 Static tester

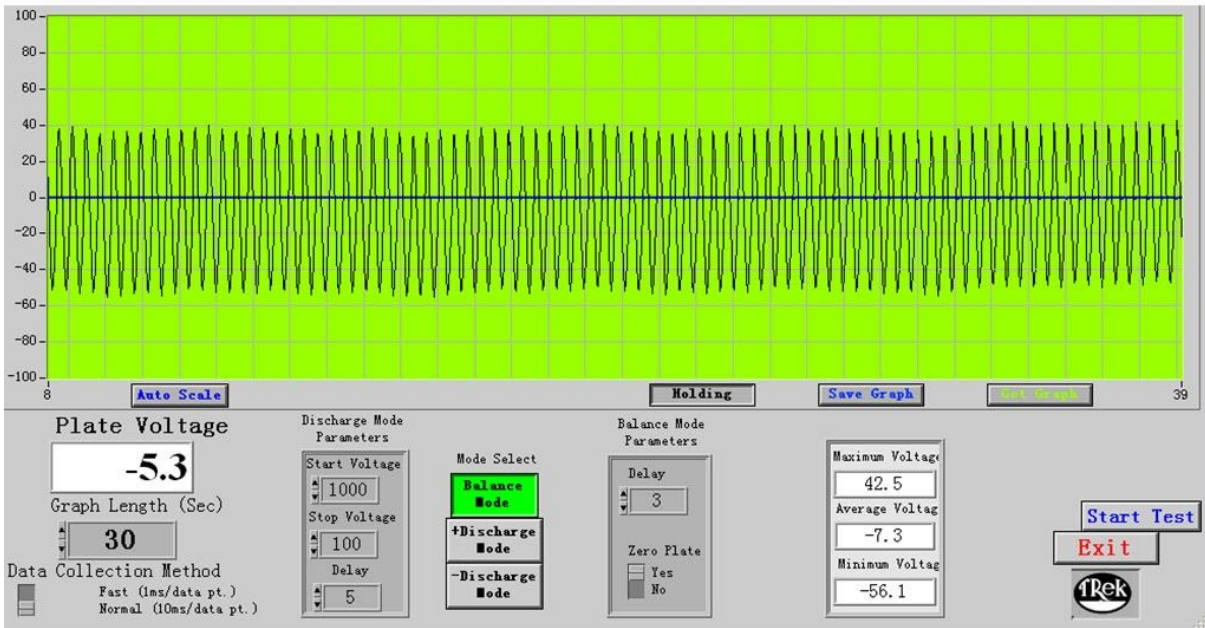
Testing standard : ESD.STM3.1-2000 ; SJ/T 11446—2013

Testing voltage :  $\pm 1000$  —  $\pm 100V$  Attenuation

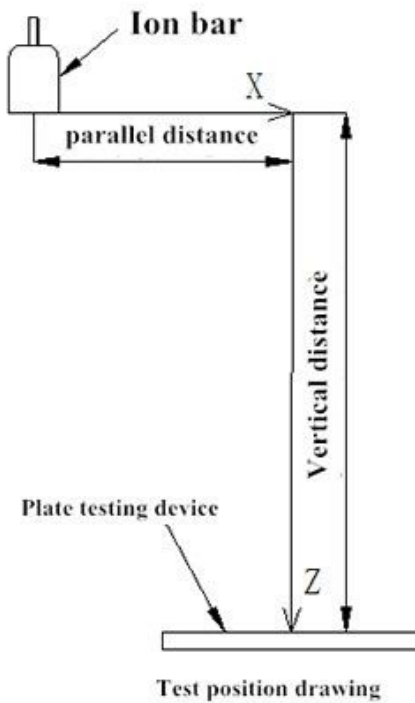
Testing environment : Humidity  $50 \pm 5\%$  Temperature:  $23 \pm 3^\circ C$

Testing data as below (Testing distance:300mm, Ion bar width:880mm,Airflow:0.3Mpa, Frequency:30Hz) :





Test standard : ANSI/ESD.STM3.1, ANSI/ESD.SP3.3, SJ/T 11446—2013  
 Test Device : Trek157 static detector  
 Test Voltage :  $\pm 1000\text{V} \rightarrow \pm 100\text{V}$  attenuation  
 Test environment : Humidity  $50 \pm 5\%$  ; Temperature  $23 \pm 3^\circ\text{C}$   
 Other test environment, test result as below



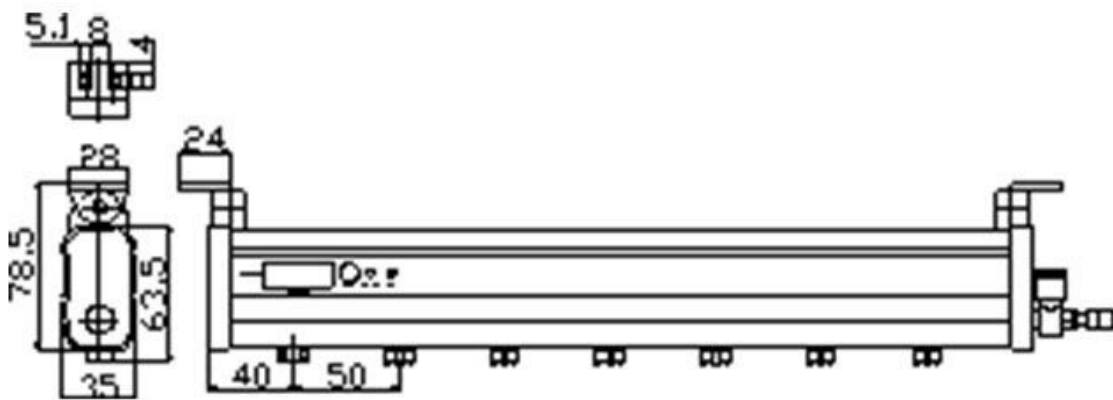
Ion bar length : 385mm ; Working frequency : 30Hz ;

Test distance (mm)		Air flow pressure (MPa) Note 1*	Duty ratio(%)	Discharge ability		
				+ discharge speed (S)	- discharge speed (S)	Ion balance (V)
Vertical	parallel					
300	-150	0.2	49	2.7	2.9	-0.7
	0		52	0.5	0.5	4.1
	150		49	2.9	3	-0.7
	-150	0.4	49	1.3	1.5	-5
	0		50	0.2	0.2	12.9
	150		49	1.6	1.9	-2.4
	-150	0.6	49	1.1	1.2	-3.8
	0		49	0.1	0.2	-11.6
	150		49	1.3	1.2	13.1
500	-150	0.2	50	2.6	3.1	-5.6
	0		51	1.1	1.3	-2.6
	150		51	2.9	3.1	2.2
	-150	0.4	49	1.5	1.8	-5.9
	0		49	0.6	0.8	-15
	150		50	1.8	1.6	11.7
	-150	0.6	49	0.9	1.2	-3.9
	0		49	0.4	0.6	-4.6

	150		49	1.2	1.4	-2.6
600	-150	0.2	50	1.8	2.4	-3.4
	0		51	1.3	1.7	1.2
	150		50	2.1	2.6	-2.4
	-150	0.4	50	1.1	1.2	9.1
	0		49	0.7	1	-4.6
	150		49	1.1	1.4	-3.7
	-150	0.6	49	0.7	0.9	-3.4
	0		49	0.5	0.7	-6.8
150	49		0.9	1.1	-1.3	

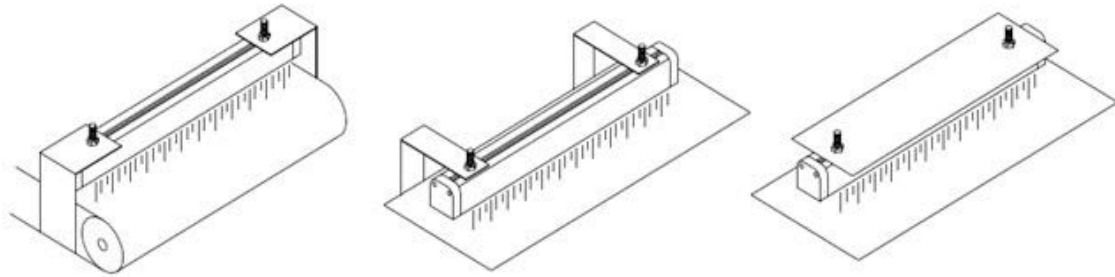
Notice : 1\*——Real-time airflow pressure values  
The ion balance performance will have difference depend on bar length,airflow pressure,working frequency,install distance;It should be adjusted duty ratio according to real working environment to make ion balance in best.

Outline Dimensional Drawing



Positioning





Integrate Control Outline

