High-voltage Power Supplies

Configuration of the Safety Device

The over-current detection section is a device that detects an overcurrent by measuring the current returned to the secondary ground terminal on the high-voltage transformer and comparing it with the reference input value.

When it detects an abnormal leakage current on the staticeliminating electrode or a high-voltage cable, the safety device stops the high-voltage power supply and displays an alarm.

Model	Current setting for abnormality detection
SAT-11	Upper limit 2.5 mA constant
SAT-20	3 settings; 2, 3.5, or 5 mA
SAT-30	SAT-30 Digital setting enabled up to 5mA in 1µA increments

Safety device meeting Product Liability standards

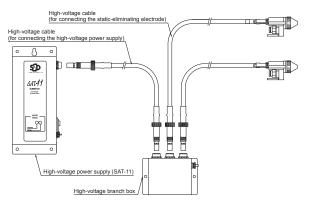
ELIMINOSTAT **SAT Series**

A safety device detects an abnormal leak electric current and stops a high pressure power supply

Powered-up and Abnormal Alarm Output ELIMINOSTAT **SAT-11**

SAT Series

Static Eliminator Connection Example







■Please use the following calculation formulae to configure your system.

SAT-11/AT-10	[Total electrode length]+[Total cable length]≦8m
SAT-20/SAT-30	[Total electrode length]≦10m+[Total cable length]≦12m

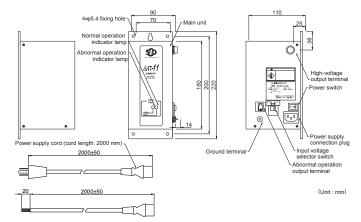
- * The length of the branch box is calculated as 1m, and the length of the AP-5, AG-5, and FAPS-GP electrodes as 0.5 m.
- *Please make sure the limited length of cable and bar before using. Because when over-length using will cause alarm of SAT series.

Main Features

The ELIMINOSTAT SAT Series comprises a static-eliminating electrode, a high-voltage power supply, high voltage cables and a high-voltage branch box for connecting the system units.

The SAT Series static eliminators are provided with a safety device that meets standards proscribed under the Product Liability Law. This safety device incorporated in the SAT Series high-voltage power supplies is an over-current protector that cuts off the high-voltage power supply when an abnormal current is detected in the electrode or in the high-voltage cables.

Dimension Diagram



ELIMINOSTAT

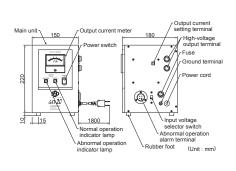
ELIMINOSTAT **SAT-20** ELIMINOSTAT **SAT-30** ELIMINOSTAT **AT-10**

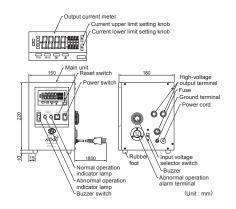


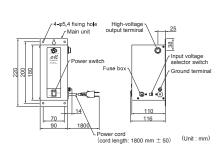




Dimension Diagram







High-voltage Cables

SAT-ECS-A1

High-voltage Branch Boxes

HVB



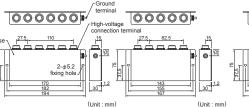
(Unit : mm)

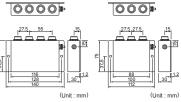












q	ŀ
2- ϕ 5.2 fixing hole-Main unit case (Color: black)	(Unit : mm)

Specifications

•						
Model	SAT-11	SAT-20	SAT-30	AT-10		
Input power supply	110~120VAC or 220~240VAC (switch-selectable)					
HV power supply used	Commercial frequency alternating current power supply (wire wound high-voltage power supply)					
Allowable output current	2.5mA	Maximum 5.0mA (2mA, 3.5mA, 5mA switch-selectable settings)	Maximum 5.0mA (upper and lower limits settable in 1μA units)	2.3mA		
Operating Environment						
Main unit dimensions	90×220×110mm (W×H×D)	150×230×180mm (W×H×D)	150×230×180mm (W×H×D)	90×220×110mm (W×H×D)		
Weight	3600g	6000g	6000g	3800g		
Alarm functions	LED indication	-				
Allowable length for connecting electrodes/wiring	8 meters in total	Electrode length: 10m; cable length: 12m		8 meters in total		
Accessories	Power supply cord (100 VAC 3P-plug) (cord length: 2000mm)	Metallic connector for alarm output; protective bushing for high-voltage output; 3-pin adapter		-		

Electrodes

AC Voltage Application Method Static Eliminators

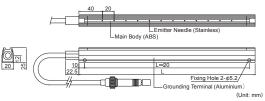
Bar electrode for small spaces

Bar Electrode ELIMINOSTAT **BJS**

(Standard cable length: 1m)



Dimension Diagram



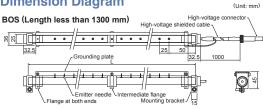
Bar electrode for long-length applications

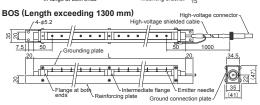






Dimension Diagram





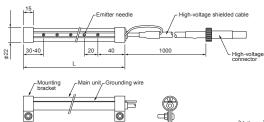
Bar electrode for small spaces



(Standard cable length: 1m)



Dimension Diagram



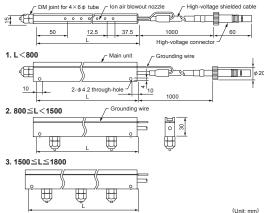
Bar electrode for small spaces

Air Electrodes ELIMINOSTAT **BUAS**

(Standard cable length: 1m)



Dimension Diagram



Electrode with flat nozzle

Air Electrodes ELIMINOSTAT **FAPS-GP**

(Standard cable length: 1m)

Dimension Diagram

