

— SPD20KVPOS —

Air High-voltage Polarisation Device



Status visualization



Intelligent monitoring



Diversified modes



integrated design



Overseas website: www.matmeas.com

Chinese website: www.balab.com.cn

Product presentation

The SPD20KVPOS air high-voltage polarisation device, developed for efficient piezoelectric ceramic polarization, features precision engineering and compact design with intuitive operation. This device is ideal for polarizing thin films and sheets, enabling students to master polarization techniques while developing their analytical and problem-solving skills. As an essential experimental tool in teaching-oriented piezoelectric ceramic polarization research, it serves as a vital resource for educators to demonstrate theoretical principles through practical applications.



functional characteristics

01

It has the function of visual monitoring, and can view the polarization process, polarization state and polarization parameters in real time.

05

Design a set of breakdown protection function circuit and breakdown alarm function independently.

02

One machine can achieve corona polarization mode, to meet the needs of different material samples.

06

It has the safety interlock function, and no high voltage will be generated during sampling, and the isolation shielding technology is adopted to prevent leakage.

03

By observing the polarization current through the intelligent monitoring function, you can find the best polarization conditions and achieve the best polarization effect.

07

Once the sample is broken down, the system will prompt that the channel is broken down and the light alarm will be raised, and the internal hardware will quickly cut off the high voltage output of this channel.

04

Small precision to achieve polarization test of small samples.

08

One-click polarization to obtain the best polarization effect.

Parameter specification

Polarization mode: air corona	voltage output accuracy: 5%
Number of sample: 1	Minimum detectable current: above 100nA
Voltage: 0~20 KV	Sample material: film/ bulk sample
Polarizing current: 1mA	sample size : $\varphi \leq 50$ mm, $d \leq 10$ mm
Temperature range: RT-180°C	Equipment size: 350×300× 160 mm
Temperature control accuracy: $\pm 3^\circ\text{C}$	supply electricity : 220V/50Hz~60Hz, 300W;
Heating slope: 3°C/min, 6°C/min, 9°C/min	weight : 12 kg
Temperature control mode: PID precision temperature control	Warranty perior One year

* For negative corona polarization, please contact : coco.matmeas@gmail.com