

Electrostatic Probe Controllers

Introduction

The electrostatic probe controller developed by Startorus Fusion is designed for Langmuir probe diagnostics in plasma experiments. It can provide bias excitation of up to ± 200 V and 4 A, and is equipped with an arbitrary waveform generator. Users can adjust the form, frequency, offset, and amplitude of the excitation signal as needed.

Additionally, the controller features functionality for isolating and detecting voltage and current signals from the probes.



Parameters

- Maximum Excitation Voltage: ± 200 V
- Maximum Excitation Current: 4 A
- Excitation Signal: Self-contained arbitrary waveform generator
- Signal Acquisition Form: Isolated current and voltage signal output (1500 VDC isolated)
- Communication Mode: modbus
- Quantity: 2 sets of independent electrostatic probe controllers
- Structure: 1U chassis form

Applications

Electrostatic probes can be applied in various fields such as plasma research, space science, geophysics, deep space exploration, vacuum coating technology, and more.