

Analog Integrators

Introduction

The analog integrator developed by Startorus Fusion is designed for monitoring magnetic fields and currents, where the output signal is the integral of the input signal over time. It features adjustable integration constants of 0.1/1/10/100 ms to meet the requirements of various application scenarios.

Moreover, the analog integrator is equipped with automatic discharge functionality for the integration capacitor to prevent residual voltage from affecting the integration results. It also includes an automatic calibration feature to effectively reduce the impact of drift. The external signal triggering function facilitates automated testing for users. The integrator adopts a 2U panel lock form, providing flexible expansion and combination capabilities, offering high application flexibility.



Parameters

- Integration Constants: 0.1 /1/10/100 ms adjustable
- Accuracy: 0.3%
- Drift: 0.5 mV/s
- Input Voltage: Up to ± 50 V
- Trigger: External
- Automatic Calibration: Yes
- Interface: RS-485

Applications

The analog integrator can play a vital role in industrial signal processing, equipment control, defense systems, motion tracking, and other fields, due to its wide measurement range and strong anti-interference capabilities.