



产品手册

仪器型号: <u>SRS斯坦福锁相前置放大器SR55</u>0

西安安泰测试科技有限公司

仪器维修|租赁|销售|测试

地址:西安市高新区纬二十六路 369 号 网址: <u>www.agitekservice.com</u> 电话: 400-876-5512 座机: 029-88827159

Lock-In Preamplifier

SR550 — FET input preamplifier

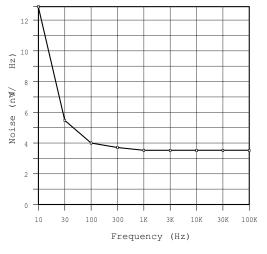


The SR550 Voltage Preamplifier is designed to work with SRS lock-in amplifiers. Preamplifiers provide gain close to the experimental detector, before the signal-to-noise ratio is permanently degraded by cable capacitance and pickup. The SR550 minimizes noise and pickup in the connecting lines and reduces measurement time in noise-limited experiments. Power and control signals are brought from the lock-in by a 9-pin cable. The SR550 may also be operated independently by applying appropriate biasing (± 20 VDC, ± 5 VDC).



- \cdot FET input, 100 M Ω input impedance
- Gain of 1, 2, 5 or 10
- · Single-ended and differential inputs
- · AC coupled input
- · High common mode rejection
- · Powered by SRS lock-in amplifiers

· SR550 ... \$750 (U.S. list)



SR550 noise plot

SR550 Specifications

Input impedance	$100 M\Omega + 25 pF$
Inputs	Single-ended or differential
Maximum input	250 mVrms for overload
	100 VDC, 10 VAC damage threshold
Noise (typ.)	$3.6 \mathrm{nV}/\sqrt{\mathrm{Hz}}$ at 1 kHz
	$4.0\mathrm{nV}/\sqrt{\mathrm{Hz}}$ at $100\mathrm{Hz}$
	$13 \mathrm{nV}/\sqrt{\mathrm{Hz}}$ at $10 \mathrm{Hz}$
Coupling	AC (0.016 Hz)
CMRR (1 V input)	90 dB at 100 Hz
Gain settings	1, 2, 5, 10 (automatically set by
	SR510 or SR530 lock-in)
Full-scale sensitivity	10 nV to 200 mV
Gain accuracy	2% (2Hz to 100kHz)
Gain stability	100 ppm/°C
Outputs	A (signal, 600Ω , single-ended)
	B (shielded ground)
Maximum output	7 Vpp
Power	Supplied by SR510, SR530, SR810,
	SR830, SR850 or SR124 via
	connector cable
Mechanical	3.0"×1.3"×5.1" (WHD)
Weight	1 lbs.
Warranty	One year parts and labor on defects
	in materials and workmanship
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Ordering Information

SR550	Lock-in preamplifier
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\$750

