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Stanford Research Systems SR830 lock-in amps harness the power of digital signal processing (DSP) to measure and display the magnitude and phase of signals. The SR830 has differential inputs with 6 nV/√Hz input noise; input impedance is 10 MΩ, while the minimum input sensitivity is 2 nV.

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Both instruments use digital signal processing (DSP) to replace the demodulators, output filters, and amplifiers found in conventional lock-ins. The SR810 and SR830 provide uncompromised performance with an operating range of 1 mHz to 102 kHz and 100 dB of drift- free dynamic reserve.

Formed in 1980, Stanford Research Systems Inc (SRS) is a privately held corporation which designs and manufactures high performance test equipment. They are the leader in their field and have produced many firsts over the years; in 1993 the world's first digital signal processing lock in amplifier the SR850 and in 1997 the SR844 the highest frequency lock-in amplifier in the world.

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SR850 - Stanford Research Systems, Inc. The SR850 is a digital lock-in amplifier based on an innovative DSP (Digital Signal Processing) architecture. The SR850 boasts a number of significant performance advantages over traditional lock-in amplifiers—higher dynamic reserve, lower drift, lower distortion, and dramatically higher phase resolution.

Overview. The SR850 is a digital lock-in amplifier based on an innovative DSP (Digital Signal Processing) architecture. The SR850 boasts a number of significant performance advantages over traditional lock-in amplifiers—higher dynamic reserve, lower drift, lower distortion, and dramatically higher phase resolution. Quick Links.

We offer the refurbished used SRS SR850 Digital Dual phase Lock In Amplifier for sale and rental. The Stanford-Research SR850 is fully tested and refurbished in our in-house ISO9001 calibration laboratory. We supply manuals, accessories, full warranty and a free-of-charge Certificate of Conformity. We can also provide the Stanford-Research SR850 with a fresh calibration for a small additional charge.

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The synchronous demodulator (AD630) is the essential ingredient in the lock-in amplifier and is what does the actual signal mixing. This is where the reference signal is inputted. The low-pass amplifier (OP27G) filters out any noise in the demodulated signal and outputs our desired DC signal that determines the strength of the lock-in.

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A variety of SHF amplifiers are verified for their excellent performance with multi-level (e.g. for PAM or QAM) and analog signals (e.g. OFDM). The SHF S807 B, in particular, is an amplifier specifically designed for 4-level signals. These amplifiers with particular emphasis on linearity are marked as “ultra linear”. Note 2: [Broadband RF & Microwave Amplifiers with up to 67 GHz ...](#)

SR810 & SR830 —Lock-In Amplifiers. The SR810 Lock-In Amplifier and SR830 Lock-In Amplifier provide high performance at a reasonable cost. The SR830 simultaneously displays the magnitude and phase of a signal, while the SR810 displays magnitude only. Both instruments use digital signal processing (DSP) to replace the demodulators, output filters, and amplifiers found in conventional lock-ins.

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