

Gated Integrators and Boxcar Averagers

SR235 — Analog processor (2-channel)



www.alavaingenieros.com

Madrid 91 567 97 00

Barcelona 93 459 42 50



- 36 functions
- Dual inputs
- Post filtering and gain adjustment
- 2 % basic accuracy

• SR235 ... \$1500 (U.S. list)

SR235 Analog Processor

The SR235 Analog Processor provides a variety of convenient signal processing functions on one or two inputs. Background subtraction, ratioing and logarithmic compression are just a few of the functions which can be implemented with the SR235. With its many output functions, high accuracy, and variable filtering and gain, the SR235 is the perfect addition for any boxcar system—especially those in which a computer is unavailable to perform signal processing.

The SR235 outputs a voltage proportional to a function of an argument formed from its two inputs (A and B). Allowable arguments are: A, B, $\sqrt{A^2 + B^2}$, $A - B$, $A \times B / 10$, and $10A / |B|$. The functions that can be selected are: x , x^2 , \sqrt{x} , $\ln|x|$, $-dx/dt$, and $-(dx/dt) / 100$. Filtering can be performed on the argument with time constants from 0.3 ms to 30 s.

SR235 Specifications

A and B inputs	1 M Ω input impedance, ± 10 V range, protected to 100 V, <2 mV input offset
Argument (x)	A, B, $\sqrt{A^2 + B^2}$, $A - B$, $A \times B / 10$, $10A / B $
Argument filter	Time constant: 0.3 ms to 30 s (1-3-10 seq.) When OFF, argument is unfiltered.
Gain	0.1 to 20 in a 1-2-5 sequence
F(x) output	x , x^2 , \sqrt{x} , $\ln x $, $-dx/dt$, $-(dx/dt)/100$
Frequency range	$-dx/dt$ to 10 Hz, $-(dx/dt)/100$ to 1 kHz, $\sqrt{A^2 + B^2}$ to 20 Hz, all others to 50 kHz
Accuracy	Gain, 2%; rms sum, 3%; difference, 1%; multiplication, 2% of full scale; division (denominator >0.1), 3% of full scale; $\ln x $, x^2 , \sqrt{x} acc. to ± 20 mV (ref. to input or output, whichever is less); $-dx/dt$ and $-(dx/dt)/100$, 5%
Power	+24 V/120 mA, -24 V/80 mA, 5 W
Warranty	One year parts and labor on defects in materials and workmanship

Ordering Information

SR235

Analog processor

\$1500