Small Instrumentation Modules

SIM983 — Scaling amplifier

- Adjustable gain and offset
- 3½-digit resolution
- 1 MHz bandwidth
- Low-noise input
- ±10V operating range





• SIM983 ... \$795 (U.S. list)

SIM983 Scaling Amplifier

The SIM983 Scaling Amplifier provides fine adjustable gain and offset control for analog signals. Both gain and offset are set with 3¹/₂ digits of resolution, and the signal path has more than 1 MHz of bandwidth. Its low noise, high gain, and high slew rate make the SIM983 a very convenient tool for sensitive analog signal conditioning.

The digital control circuitry in the SIM983 is designed with SRS's special clock-stopping architecture in which the microcontroller is turned on only when switch settings are being changed. This guarantees that no digital noise contaminates low-level analog signals.

Specifications

Impedance Bandwidth Input noise (typ.) Offset Max. input 1 MΩ DC to 1 MHz 45 nV/√Hz @ 1 kHz ±10 V (3½-digit resolution) ±10 V

Gain	± 0.01 to ± 19.99
Max. output	±10 V
THD	0.003 % (90 dB) @ 1 kHz
Slew rate	70 V/µs
Operating temperature	0 °C to 40 °C, non-condensing
Interface	Serial via SIM interface
Connectors	BNC (2 front-panel, 1 rear-panel)
	DB15 (male) SIM interface
Power	Supplied by SIM900 Mainframe, or
	optionally by a user-supplied DC
	power supply $(\pm 15 \text{ V and } +5 \text{ V})$
Dimensions	1.5"×3.6"×7.0" (WHD)
Weight	1.5 lbs.
Warranty	One year parts and labor on defects
	in materials and workmanship

Ordering Information

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