Small Instrumentation Modules

SIM983 — Scaling amplifier

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

• SIM983 ... \$675 (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 3½ 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

Max. input $\pm 10 \, V$

Gain ± 0.01 to ± 19.99

Max. output $\pm 10 \,\mathrm{V}$

THD 0.01 % (80 dB) @ 1 kHz

Slew rate $70 \text{ V/}\mu\text{s}$

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 (±15 V and +5 V)

Dimensions $1.5"\times3.6"\times7.0"$ (WHD)

Weight 1.5 lbs

Warranty One year parts and labor on defects

in materials and workmanship

Ordering Information

SIM983 Scaling amplifier \$675

