## **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  $\pm 0.01$  to  $\pm 19.99$ 

Max. output  $\pm 10 \text{ V}$ THD 0.01% (80 dB) @ 1 kHz

Slew rate 70 V/µs

Operating temperature 0 °C to 40 °C, non-condensing Interface Serial via SIM interface BNC (2 front-panel, 1 rear-panel)

BNC (2 front-panel, 1 rear-panel) DB15 (male) SIM interface

Power +5 VDC (100 mA max.),

 $\pm 15$  VDC (300 mA max.)

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

