Small Instrumentation Modules

SIM964 — 1 MHz analog limiter

- Settable upper & lower limits (±10 V)
- · 10 mV resolution
- · 1 MHz bandwidth
- TTL outputs for limit detecting
- High slew rate





- SIM964 Analog Limiter

The SIM964 Analog Limiter provides upper and lower voltage limits for conditioning dynamic signals. Limits are set between $\pm 10~V$ with 10~mV resolution. Two rear-panel TTL signals are activated when upper or lower limits are exceeded. The SIM964 uses SRS's clock-stopping architecture design to eliminate digital noise artifacts. The low output noise and low harmonic distortion of the SIM964 make it ideal for many applications.

Specifications

Limit settings $\pm 10 \text{ V}$ (both upper and lower)

Resolution 10 mV Bandwidth 1 MHz

Limit type Soft limit (100 mV range)

Input impedance $1 \text{ M}\Omega$ Output noise $400 \,\mu\text{Vrms}$

THD 0.01 % (80 dB) at 1 kHz

Slew rate 20 V/µs

Limit detect TTL level signals (rear-panel BNC

connectors) are high when upper or

lower limits are exceeded.

Operating temperature 0 °C to 40 °C, non-condensing

Interface Serial via SIM interface
Connectors BNC (2 front, 2 rear)

DB15 (male) SIM interface

Power Powered by SIM900 Mainframe, or by user-provided DC power supply

 $(\pm 15 \text{ V and } \pm 5 \text{ V})$

Dimensions $1.5" \times 3.6" \times 7.0"$ (WHD)

Weight 1.5 lbs.

Warranty One year parts and labor on defects

in materials and workmanship

Ordering Information

SIM964 Programmable analog limiter



