

SWR-2755 Switcher

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Audio Precision offers three models of the SWR-2755 audio switchers, which expand the 2-channel input and output capabilities of Audio Precision 2700 series and ATS-2 audio analyzers, as well as older System One and System Two instruments.

SWR-2755 switchers replace the SWR-2122 switchers, which have been discontinued. The new switchers are entirely compatible with our current products and offer better performance at a lower price. They also may be used with any discontinued products that originally specified the SWR-2122 or SWR-122 switchers.

Built with the same feature set and solid integrity of the SWR-2122, the new SWR-2755 series bring significantly lower crosstalk (18 dB better in an unbalanced 600 Ω load; 10 dB better in a balanced 600 Ω load), a new universal power supply that automatically adjusts to all line voltages, a convenient rear-panel ground lug and full EMC and safety regulatory compliance. Manufacturing economies enable us to offer the new switchers at a significantly lower price.

Key features

- Input and output configurations enable switching of generator outputs or analyzer inputs, or both.
- Balanced and unbalanced configurations are available.
- LEDs indicate the on or off status of each channel.
- Multiple switchers can be connected to an Audio Precision analyzer, expanding the system capability to as many as 192 inputs and outputs.
- Low inter-channel crosstalk, less than –150 dB at 20 kHz in the balanced configurations.
- All switchers are one rack unit (RU) high (1.75"). Switchers can be used on the bench or rack mounted with an optional rack mount adapter kit.

Specs

Electrical Characteristics

- **Max Voltage Rating** 200 Vpk, 160 Vrms
- **Max Signal Power** 5 W or 200 mA
- **Crosstalk**
 - Balanced 600 ohm load
 - 150 dB @ 20 kHz
 - 136 dB @ 100 kHz
 - Unbalanced 600 ohm load
 - 138 dB @ 20 kHz
 - 124 dB @ 100 kHz
- **Series resistance** typically <0.3 ohm per side
- **Shunt capacitance** typically <90 pF, from signal path to chassis (100 nF from BNC shell to chassis on U versions).
- **Reverse termination** 604 ohm, 250 mW maximum

General Characteristics

- **Power Requirements** 90–250 Vac, 50-60 Hz, via external dc supply module
- **Temperature Range**
 - Operating 0°C to +50°C
 - Storage –40°C to +75°C
- **Humidity** 80% RH to +40°C, (non-condensing)
- **Dimensions** 16.5 x 1.75 x 10.5 inches [41.9 x 4.4 x 26.7 cm]
- **Weight** Approximately 9.9 Ibs [4.5 kg]
- **Regulatory Compliance**
 - EMC complies with FCC Part 15 Subpart J (class B), 89/336/EEC, 92/31/EEC, and 93/68/EEC, EN 50081-1 (1992) Emissions Class B, EN-50082-1 (1992) Immunity.
 - Safety complies with 73/23/EEC, 93/68/EEC, EN6010-1 (1903)— IEC 1010-1 (1990) + Amendment 1 (1992) + Amendment 2 (1995). Installation category II—Pollution Degree 2.
 - External Power Supply AP part number 4540.0020 complies with IEC 60950:1991+A1+A2+A3+A4, UL 950 Third Edition E183744, CSA C22.2 No. 950.
 - External Power Supply AP part number 4540.0051 complies with IEC 60950:1991, UL60950 Third Edition E199447, CSA C22.2 No. 60950, PSE J60950:1998, NOM-001-



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Options

SWR-2755M Output Switcher

- 12 X 2 configuration
- Can route either of the two generator output channels (A & B) to any of 12 channels
- Up to 16 units can be cascaded to allow up to 192 channels to be accessed
- XLR connectors for balanced signals or, using adapters, unbalanced signals
- Complement mode allows all but one channel to be driven while measuring the undriven channel for worse case crosstalk on multichannel devices

SWR-2755F Input Switcher

- 12 X 2 configuration
- Can route either of the two analyzer input channels (A & B) from any of the 12 channels
- Up to 16 units can be cascaded to allow up to 192 channels to be accessed
- XLR connectors for balanced signals or, using adapters, unbalanced signals

SWR-2755U Unbalanced Switcher

- 12 x 2 configuration
- Can be used as either an input or output switcher (by dip switch on rear panel)
- Up to 16 units can be cascaded to allow up to 192 channels to be accessed
- Floating BNC connectors for unbalanced signals prevent ground loops