

# 9580 SSR

## Return Test Field Unit



- Return Sweep  
And Ingress Displays
- Lightweight,  
Rugged
- Sweep Data  
Logging Functions

The SSR Field Unit is designed for balancing the return system and for hunting down sources of ingress. Working with a Guardian 9580 SST Return Path Analyzer, the SSR transmits reverse test signals to the SST, located in the Hub or Head End and displays balancing and ingress measurement data broadcast from the SST. The SSR\SST combination is very fast: regardless of the number of SSRs that are active, all sweep and ingress displays are updated every 750 milliseconds. SSRs are addressable, and up to six may operate through a single SST at any time. The SST tags the respective measurements to each SSR's address, insuring that each SSR receives the appropriate data.

Measurement results are displayed by the SSRs high-resolution back lit LCD panel as ingress spectra, sweep patterns or calculated values for gain and tilt.



The "SWEEP" display is useful for aligning amplifiers that employ screwdriver adjustments. Calculated figures for "GAIN" and "TILT" are more useful for balancing amplifiers that use equalizers and pads. The SSR can also display ingress spectrum graphs transmitted by the SST. For use in tracking down sources of ingress.

The SSR is small and lightweight, and features a water-resistant case and a padded carrying bag. The SSR operates on internal NiCad batteries for up to five full hours, or may be operated from AC power. Operation is very simple and menu-driven and designed so that only one keystroke is needed to select any of the analytical displays.

### SweepSavR Software

The SSR is capable of storing up to 24 swept responses in non-volatile memory for downloading to a PC running TRILITHIC's SweepSavR software. SweepSavR allows the operator to archive or retrieve balancing data and display it in a tabular or graphic format. The user may append a title of up to eight characters to each record. Multiple swept responses may be displayed for comparison and reports can be generated that trace the history of a particular segment of the distribution system. SweepSavR also lets the operator transfer up to 24 data logs from PC archives to the SSR for comparison to new sweep data in the field.





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## Specifications

**Measurement Displays:**

Return sweep, showing deviation from ideal response;  
Calculated values of "GAIN" and "TILT";  
Calibrated spectral display of ingress and noise

**Reverse Test Frequency Range:**

With 9580 SST: 0.3-42 MHz  
With 9581 SST: 0.3-65 MHz

**Sweep Test Signals:**

Up to 8 test signals  
Frequencies are individually settable

**Sweep Level Resolution:**

.25 dB

**Balancing Measurement Accuracy:**

0.7 dB

**Data Carrier:**

Single FSK carrier  
50.00-53.75 MHz and 70.00-75.75 MHz  
Frequency is user settable in 50 KHz steps  
Optional: 80.00-90.00 MHz

**Data Carrier Bandwidth:**

150 KHz at -20 dBc  
475 KHz at -60 dBc

**Spectrum Display:**

50 dB dynamic range, 1 dB measurement resolution

**Measurement Speed:**

All measurements updated every 750 milliseconds

**SSR Display Panel:**

High-resolution, backlit LCD, 1.5" x 2.75"

**Controls:**

Membrane key pad

**Operating Temp:**

-18 to 50 C

**Size (without bag):**

Size: 8.3" x 5.5" x 2"

**Weight:**

3 lbs.

**Power:**

8.4 V NiCad battery, 5 hours operation  
115-230 VAC with Power Cube

