

# VIAVI RSVP<sup>2</sup>

## Installer's Reverse Path Tester

The Guardian RSVP<sup>2</sup>™ ensures return quality where it is most critical – the subscriber's installation. Most return path problems begin in the subscriber's home. Errors in installation, defective cabling, or incorrectly installed or loose hardware can all disrupt return path communications or allow ingress to enter the cable system. The RSVP<sup>2</sup> tests the key return parameters that verify the installation is error-free and ready for the demands of VOD, VoIP and HSD return services.

### Return Path Tests: Quick, Sure and Easy

Pressing the "Test" button opens communications with a Guardian 9581 SST™ Reverse Path Analyzer in the hub or head-end. Automatic measurements quickly measure the required upstream transmit level and compute the carrier/(noise + ingress) ratio for the path between the subscriber and the 9581 SST. The RSVP<sup>2</sup> compares the results of both tests to user-settable limits and in seconds displays a simple, unambiguous "pass" or "fail." The installer can also view the actual measurement data as an aid to troubleshooting.

### The Importance of Measurement Range

Only the RSVP<sup>2</sup> / 9581 SST combination provides the ingress measurement range needed to ensure reliable HSD, VOD, and VoIP services under all conditions. Complaint-free return services require a C/(N+I) ratio of better than 25 dB in all conditions. Installations done during the workday must include sufficient ingress margin to meet mid-evening conditions when the ingress can be 6 dB worse.

### Key Features

- Eliminates callback truck rolls by ensuring installation quality on the first visit
- Verifies operation headroom for critical digital services
- Quick, simple, automated testing with pass/fail results
- Small, rugged, lightweight and simple-to-use



Of all available return path measurement systems, only the Guardian RSVP<sup>2</sup> tests C/(N+I) with the range needed to ensure trouble-free service. And it does it with a simple Pass/Fail test that can be performed in seconds.

## Built-in Test Generator for Identifying Drops

The RSVP<sup>2</sup> includes a tone modulated signal source for identifying cables in MDUs and other installations. Output is settable in both frequency and level. The source may be used continuously for up to eight hours on a single charge.

## Fast Return Path Performance Testing

The RSVP<sup>2</sup> performs measurements and analysis in seconds. Operation is automatic. The installer simply presses the START button and the RSVP<sup>2</sup> does the rest.

## Consistent Measurements

The RSVP<sup>2</sup> evaluates upstream level and C/(N+I) measurements against settable limits and delivers an unambiguous result. Using the ConfigR Setup™ application, an operator can pre-program the operating parameters to ensure consistent installation quality.

## Very Cost Effective

The RSVP<sup>2</sup> is small, rugged, and very inexpensive, making it ideal for the installer's tasks and environment.

## The Guardian System II™

The Guardian System II is a powerful, flexible system of field and central office products supporting all aspects of return path management, including installation, distribution system alignment, ingress control, ingress monitoring, and real-time troubleshooting. The 9581 SST, the hub of the system, supports field technicians using the RSVP<sup>2</sup> and 860 DSPi™ field units and network engineers using the Viewer II™ server. All elements of the return maintenance process are closely linked for maximum efficiency, flexibility, and optimum cost effectiveness.

### Includes the Following

- 50 to 53.75 MHz / 70 to 75.75 MHz reverse path tester (P/N 2010814010) or 80.5 to 92 MHz reverse path tester (P/N 2010814011)
- CC-15 padded carrying case P/N 2130673000
- Battery charger P/N 0610150000
- User's manual on CD

### Optional Accessories

- ConfigR software with I/O-6 data cable P/N 0930018000
- F-type push-on adaptors P/N 0200622000
- I/O-6 data cable P/N 2071082000
- I/O-15 precision test cable P/N 2071527048
- CC-15 padded cloth carrying case P/N 2130673000

## Specifications

Test Functions	
Transmit Level	20 to 55 dBmV
Return C/(N+I) Ratio	≥35 dB for ≥0 dBmV input to SST
Output Test Signals	
Test Mode	Used in transmit level test Single frequency 5 to 42 MHz, automatically set by transmission from 9580 or 9581 SST
Source Mode	Used with an SLM to ring out cabling 5 to 42 MHz, 20 to 55 dBmV, user-settable CW, tone and channel tagged output
Mode Transmit Level Accuracy (All Modes)	±1.5 dB @ -18° to +55° C (0° to 131° F)
Data Carrier Frequency	Choose from: 50.00 to 53.75 or 70.00 to 75.75 MHz, user-settable Optional: 80.5 to 92 MHz
Data Carrier Receive Range	-15 to +20 dBmV
Display	4 digit LED with annunciators
Charger	115 VAC charger
Charge Time	14 hours, maximum
Operating Temperature	-18° to +55° C (0° to 131° F)
Dimensions (H x W x D)	4.0" x 5.0" x 1.25" (102mm x 127mm x 32mm)
Weight	1 lb (454 g)



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