RSVP²

Installer's Reverse Path Tester

- **Tests The Return Path From Subscriber's Terminal To Headend**

- **Tests Subscriber House Cabling For Ingress Potential**

- **Pass/Fail And Data Readouts**

- **Small, Lightweight And Simple To Use**

Now there is a return path testing system specifically designed for the CATV installer . . .

Most return path ingress problems begin in the subscriber's home. Errors in installation, defective cabling, mis-installed or loose hardware - any of these can disrupt return path communications or allow ingress to enter the cable system. The best way to avoid subscriber-generated return path problems is to test the quality of the path during every installation. The TRILITHIC Guardian RSVP² and Guardian IsoMeter equip the installer to "proof" the return path all the way from the subscriber to the headend, and to verify that the subscriber's cabling will prevent ingress from entering the system.

Return Path Tests: Quick, Sure & Easy

Operation is simple. Just connect the Guardian RSVP² in place of the subscriber's set top terminal or cable modem and press the "TEST" button. The RSVP² communicates with a TRILITHIC 9580 SST reverse path analyzer located in the headend, and initiates a test sequence. Automatic measurements determine whether the level of reverse signal needed to communicate with the headend is within the capabilities of the subscriber terminal and calculate the return path Carrier/(Noise + Ingress) ratio. The RSVP² then compares the results of both tests to user-settable limits and gives the installer a simple "PASS" or "FAIL" message. The installer can also recall the actual measurement data as an aid to troubleshooting.

ConfigR Software

ConfigR is a simple PC software that sets the Guardian RSVP² to the appropriate transmit and receive frequencies, signal levels and the limit values that it will use to evaluate the return path performance. Only one copy of ConfigR is needed per site. A special interface cable for connecting the RSVP² to the PC is provided with the software. ConfigR will run on any IBM ® compatible computer, 486/33 or greater with 4Mb of RAM, and 2Mb of available hard drive, operating Windows 3.1 or later Windows operating system.

Guardian IsoMeter

When set to "SOURCE" mode, the RSVP² generates a special reverse test signal which the installer can inject into the house cabling to "ring out" an installation. A companion instrument, the Guardian IsoMeter Reverse Leakage Detector, is sensitive to the RSVP's test signal. If the IsoMeter detects reverse frequency leaks, the installer can find their sources by listening to the IsoMeter's audible tone while moving in the direction that causes a rise in pitch. When everything is tight no leakage is detectable, and the installer can be sure that the cabling in that home is ready to withstand all common sources of ingress.

RSVP²

S p e c i f i c a t i o n s

Electrical:

RF Output Freq:
5-42 MHz

RF Output Level:
+20 to +55 dBmV
In "SOURCE" mode, user settable in 1dB steps
In "TEST" mode, level is selected automatically

RF Output Level Accuracy:
+/-1.5 dB @ -18 C to +55 C

Spectral Purity:
All unwanted:
5-42 MHz: -40 dBc
54-750 MHz: -45 dBc

Data Carrier Frequencies:
50.00-53.75 or 70.00-75.75
MHz, user-settable: Optional: 80.5-92
MHz available with hardware modification

Receive Sensitivity:
-15 to +20 dBmV

Display:
4 digit LED with 4 dot annunciators:
ON (power)
SOURCE (source)
LEVEL (level)
C/N (carrier/noise ratio)

Battery:
Internal NiCad (2 'C' cells)

Battery Life:
4 hours minimum continuous operation in
  "SOURCE" mode
8+ hours in "TEST" mode

Charger:
9V, 500mA charge cube

Charge Time:
14 hours

Operating Temp:
-18 C to +55 C

Mechanical:

Case Material:
ABS, copper coated inner surface

Size, Weight:
Approx. 4.0 x 5.0 x 1.25 in.
Less than 1 lb.

The Guardian Return Maintenance System
TRILITHIC's Guardian System is a complete return path maintenance solution, filling all testing needs from installation to ingress monitoring, from the subscriber to the headend. See "R.P.M. System Overview pg. 49" for more information on how the Guardian family provides distribution maintenance, installation testing and performance monitoring in one seamless, scalable and cost-effective maintenance system.

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68   **9710 Park Davis Drive, Indianapolis, IN 46235 USA** **317.895.3600• 800.344.2412• fax 317.895.3613• www.trilithic.com**