

NetWork Analyzer

Protek— A333

NetWork Analyzer

The Protek A333 network analyzer has been developed and produced for higher frequency resolution and more convenient user interfaces than other industry-leading products in the same 3GHz class. The architecture of A333 includes 1 mHz of high frequency resolution with a 3.2 GHz frequency range. The Protek A333 network analyzer offers a 10.4inch color LCD touch screen and a variety of display functions, which allow you to optimize your convenience. The Protek A333 network analyzer builds on GSI's 36-year legacy of excellence to bring new standards to the radio frequency (RF) test and measuring industry.



LGDA-TECHNOLOGIES est le nom commercial de VLS-TEST SARL au capital 7600€ SIRET 488 605 833 000 26

Code APE :4669C - TVA intracommunautaire : FR 71 488 605 833 000 26

Siège social : 140 RUE DE GUIRAMAND – ZONE ARTISANALE DES MILLES - BP 266 - 13797 AIX EN PROVENCE CEDEX 3



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Measurement range

- Frequency Range : 0.3 to 3200MHz
- Impedance : 50Ω (75Ω)
- Test Port Connectors : N-type Female
- Number of Test Ports : 2
- Frequency Accuracy : ±5 ppm
- Frequency Resolution : 1mHz
- Number of Test Points User-Selectable : 2 to 10001
- IF bandwidth settings 1/1.5/2/3/5/7/10 step : 1Hz to 30kHz
- Dynamic Range IF Bandwidth 10Hz : 2 to 3200MHz > 125dB Typ. 130dB

Test port output

- Power range : -45 to +10dBm
- Power accuracy : <1.0dB
- Power resolution : 0.05dB
- Harmonic distortion : -30dBc

Test port input

- Match Without system error correction : > 25dB
- Damage level : +26dBm
- Damage DC voltage : 35V

External Reference Signal Input/Output

- Frequency : 10MHz

Measurement Accuracy

1. Accuracy of Transmission Measurement (magnitude/phase)

- Specifications are based on a matched DUT, a measurement bandwidth of 1 Hz, and a nominal source power of -5dBm +15 to +5dB 0.2dB/2.0°

+5 to -50dB 0.1dB/1.0°, -50 to -70dB 0.2dB/2.0°, -70 to -90dB 1.0dB/6.0°

2. Accuracy of Reflection Measurement (magnitude/phase)

- Specifications are based on a matched DUT, a measurement bandwidth of 1 Hz, and a nominal source power of -5dBm

0 to -15dB 0.4dB/4.0°, -15 to -25dB 1.5dB/7.0°, -25 to -35dB 4dB/22.0°

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Trace Stability

Temperature Dependence Per one degree of the temperature variation : 0.02dB

Trace Noise Magnitude IF bandwidth 3kHz : 0.001dB rms

Other capabilities

1. Internal hard disk drive

Store and recall instrument states, calibration data, and trace data on internal hard drive. Trace data can be saved in CSV (comma separated value) format. Instrument states include all control settings, limit lines, segment sweep tables, and memory trace data.

2. USB

Instrument states, calibration data, and trace data can be stored on an external USB drive.

3. Screen hardcopy

Printouts of instrument data are directly produced on a printer. The analyzer provides USB and parallel interfaces.

4. Familiar graphic user interface

Protek A333 provides graphic user interface based on Windows. There are three ways to operate A333 manually: a hard-key interface, a touch screen interface, mouse interface.

5. Limit lines

Defining the test limit lines that appear on the display for pass/fail testing. Defined limits may be of any combination of horizontal/sloping lines and discrete data points.

Programming functions

COM/DCOM Automation

Remote Control

LAN, GPIB (optiona)

Operating environment

Temperature : +5 to +40°C

Dimension (W x H x D) : 426 x 222 x 270 mm

Weight : 10.6 kg

Power supply : 100 to 240 VAC / 47 to 63 Hz

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