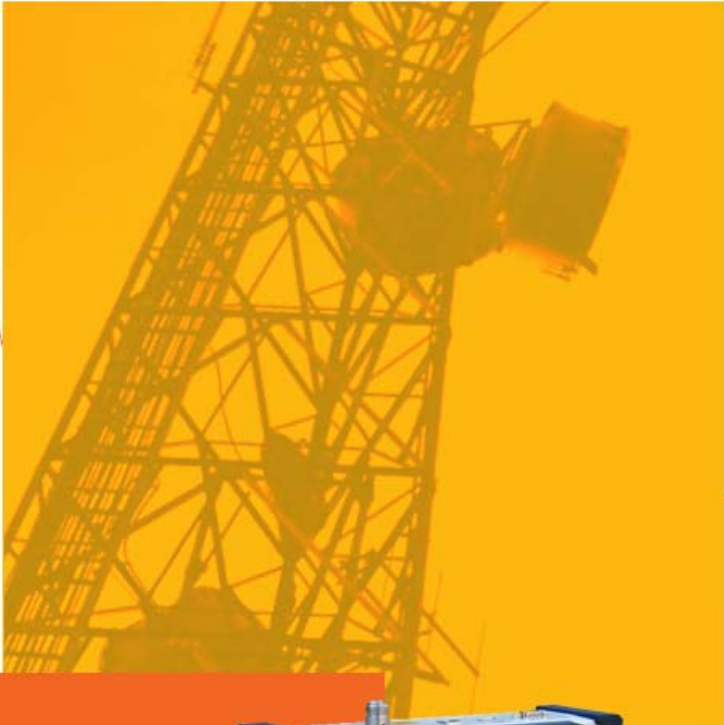


Cable and Antenna Analyzers

GC723A / GC724B

Power Measurements



Introduction

The output power level of a component or system is one of the most important factors in the overall performance of almost any RF equipment.

Key Features

- Plug and play external power sensors
- Upper limit can be set for Pass/Fail indication
- Power sensor types:
 - Directional Power Sensor
 - Terminating Power Sensor

Power Sensors

GenComm's Cable and Antenna Analyzers are capable of measuring RF power through the use of external power sensors. There are two kinds of power sensors, Directional and Terminating.



RF Power Measurement

Directional Power Sensors (GC731A and GC733A) are used to measure forward power and reflected power without having any service disturbance. Typical applications include installation, maintenance, and monitoring of transmitters with antenna in wireless base station.



Directional Power Sensor

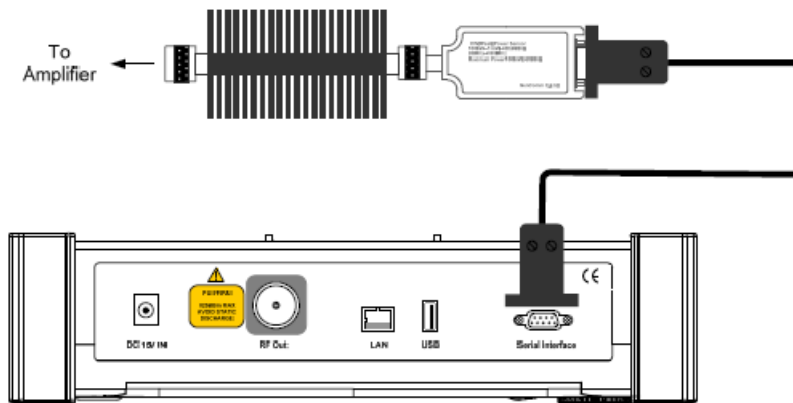
Terminating Power Sensors (GC72450551, GC72450552, and GC732A) are used to measure out-of service power. Typical applications include installation, and maintenance of base station in wireless and RF generators or repeaters.



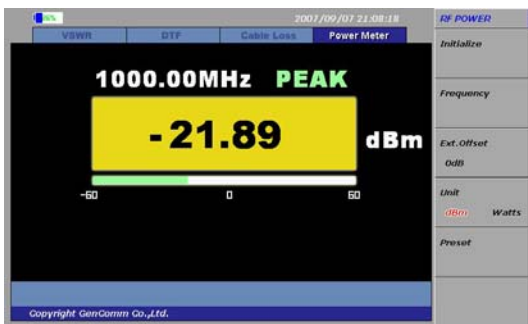
Terminating Power Sensor

Power Meter

GenComm's Cable and Antenna Analyzers have the functionality of a Power Meter presenting power measurement results while interfacing with external power sensors. These power measurement are displayed either in dBm or Watts.



There are two kinds of power measurements performed in RF systems, they are Peak Power and Average Power, its application depends on the type of transmission power signals to be measured.



Peak Power Measurement



Average Power Measurement

Specifications

Terminating Power Sensor

Part Number	GC72450551
Measurement	Average Power
Range	1 μ W to 1mW
Frequency Range	20 to 3000 MHz

Terminating Power Sensor

Part Number	GC72450552
Measurement	Peak Power
Range	100nW to 1mW
Frequency Range	20 to 4000 MHz

Directional Power Sensor

Part Number	GC731A
Measurement	Average Power
Range	150mW to 150W
Measurement	Peak Power
Range	4W to 400W
Frequency Range	300 to 3800 MHz

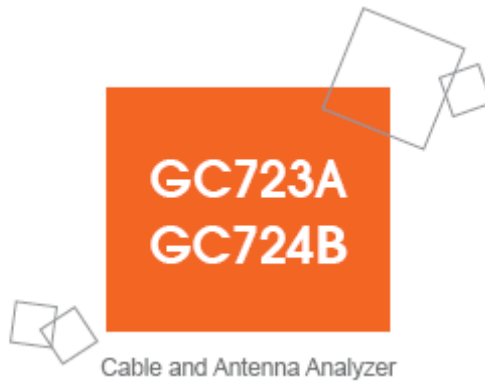
Terminating Power Sensor

Part Number	GC732A
Measurement	Average Power
Range	1 μ W to 100mW
Frequency Range	20 to 3800 MHz

Directional Power Sensor

Part Number	GC733A
Measurement	Average Power
Range	250mW to 20W
Measurement	Peak Power
Range	250mW to 20W
Frequency Range	150 to 3500 MHz





Cable and Antenna Analyzer



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