

ANTENNA RADIO FREQUENCY TESTER



SIMULATION AND TESTING

Captronic Systems' Radio Frequency Tester is used to validate the functionality of the Automotive Car Antenna and its various characteristics.

Indeed, it allows to test different parameters such as the Gain, the Voltage, the Current Drawn and the Frequency of AM/FM/DAB Radio.

Furthermore, it is also able to test both the frequency and the Voltage Standing Wave Ratio (VSWR) of the GSM communication. Finally, the Car Antenna Radio Frequency Tester enables the diagnosis of the Resistance thanks its ability to check for component damages on the antenna.



AM/FM/DAB Radios



GSM Parameter



Diagnosis of Resistance

ANTENNA TYPE
AM/FM/DAB

NUMBER OF DIGITAL SIGNALS
64 Channels

MASS INTERFACE CONNECTIVITY
VPC / Harting

RF SWITCH MATRIX
8 Channel

FREQUENCY RANGE
1000 kHz to 3.2 GHz

A COMPLETE TEST SOLUTION

ANTENNA RADIO FREQUENCY TESTER

> SOFTWARE SPECIFICATIONS

Application Software for Antenna RF Tester of following feature & test list:

- Login Authentication Module
- User Level – Admin, test engineer & Operator
- Manual Module for I/O, Instrument diagnosis & troubleshooting
- Configuration Module for setting the specification limits, test • sequencing &
- AUTO Run Module for sequence execution of test in production mode
- Test Report

> TEST PARAMETERS

- Network Analyzer - frequency & power
- Verify the functionality of Antenna
- AM/ FM / DAB – Gain, Voltage, Current Drawn & Frequency range
- GSM – Frequency, VSWR
- Diagnosis Resistance

> HARDWARE SPECIFICATIONS

DUT Power Source	20V/10A
VNA	1000 kHz to 3.2 Ghz, 2-port
Number of Digital Signals.....	64 channels
RF Switch Matrix	8 channels
Mass Interface Connectivity Solution.....	VPC / Harting

> APPLICATION AREA

- Antenna Characteristic Testing – R&D Validation
- Car Antenna unit EOL Testing - Production



AUTOMOTIVE DEVELOPMENT CENTRE

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