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Sark 100 manual pdf

This is an antenna analyzer for ham radio hobbyists. It can measure 50 ohms source impedance with error (+/-)1 ohm. It is also a meter for standing waves, impedance, capacitance ... English User Guide: 20User%20Manual.pdf?dl=0 Software: 20EN%20V0.8.exe?dl=0 Features: Frequency creation & control: 1-60MHz. External power: 2.1mm power jack (positive middle pin), 5 operation buttons, easy and convenient to operate. Installed a black metal box, simply connect the power (not included) and then work. Step size: user configurable increment of 100Hz, 1KHz, 10KHz, and 100KHz. Supports measuring data waveform analysis through connecting a computer with a USB cable (not included). Application: Measuring antenna electrical parameters: SWR, impedance (resistance+reactance), capacitance, inductance; Measure feed point impedance; Measure soil loss; Adjust the antenna tuner and determine the disadvantages; Measure inductors and capacitors; Measuring coax transmission lines (SWR, length, speed factor, estimated Q and loss, resonance frequency, and impedance); Measure and determine the optimal settings for setup stub: SWR, Q forecast, resonance frequency, bandwidth, impedance; Determine the impedance characteristics of the transmission line; Measures magnetic loop resonance and SWR; Operation Button Definition: MODE: specific operation mode: impedance(default), complex impedance, capacitance, and inductive band; select a band from one of the available bands: 160M to 6M CONFIG: provides a menu for extended configurations and functions: PC Link, Step size settings, suspension timing, calibration, and software upgrades; press this control to start scanning the Scan frequency out to impedance mode indicating bandwidth 2:1 and resonance point o antenna CAN(up); increase the frequency and use to cancel operations for the VAL(down) CONFIG menu: reduces the frequency and is used to validate operations for config menu specifications: Frequency Generation & Control: 1-60MHz Impedance Source: Stability 50 ohms; (+/-) Spectral Purity 100 ppm; Harmonious Down & TDB dB exceeds Step Size 60MHz; User configurable increment 100Hz, 1KHz, 10KHz, and Usable Measurement Range 100KHz: SWR: 1.0 to 9.99 Impedance: Approx. 5 to 2000 ohms RF Output: Adjustable: 2.0 Voltpp (typ) RF Off: BNC Connector: RF Power Supply (NOT Included); Powered by External: DC 12-12 14V, External Power 500mA; Power Jack 2.1mm (positive middle pin) USB Interface: Mini USB Container Item Size : 14.8 * 8.7 * 3.3cm / 5.83 * 3.43 * 1.3in (L * W * H) Item weight: 536g/18.91oz Package list: 1*ANT SWR Antenna Analyzer (Power supply not included) If Questions Or bulk orders, please contact Mrs. Amy Huang; Email: info@hi-radio.com WhatsApp / Skype: +86-13860123881 Tel: 86(592)5995025 Fax: Fax: SelectionFile type iconFile nameDescriptionSizeRevisionTimeUser Ć SARK-110_Antenna_Analyzer_v1.5.ppsxView Download PowerPoint Slides 2155k v. 1 Apr 6, 2020, 9:36 AM Melchor Varela Ć SARK110-AppNotes.pdfView Download Application Notes 2938k v. 2 Apr 6, 2020, 6:28 AM Melchor Varela Ć SARK-110_Datasheet.pdfView Download Datasheet 155k v. 3 Apr 6, 2020, 9:31 AM Melchor Varela Ć SARK-110_QuickStartGuide.pdfView Download Quick Start Guide 780k v. 3 Apr 6, 2020, 9:31 AM Melchor Varela Ć SARK110-UserManual_v1.3.4_rus.pdfView Download Руководство пользователя v1.3 (FW 0.10.x) 3464k v. 1 Nov 16, 2018, 7:31 AM Melchor Varela Ć SARK110-UserManual_v1.3_A5.pdfView Download User's Manual v1.3 (FW 0.10.x) - Compact A5 format 2910k v. 30 Apr 6, 2020, 9:27 AM Melchor Varela Ć SARK110-UserManual_v1.3.es.pdfView Download Manual de Usuario v1.3 (FW 0.10.x) 3041k v. 9 Apr 6, 2020, 09:27 Melchor Varela -SARK110-UserManual_v1.3.pdfSee Download User Guide v1.3 (FW 0.10.x) 3039k v. 29 Apr 6, 2020, 09:27 Melchor Varela Owen (VK1OD) has written a blog about the program. Software is now updated. (Since Ver. Nov-2017). What I've done is make this analyzer a little more comfortable from my perspective. I made my own calculations to complete the negative reactivity that SARK-100 or its clones cannot do. ZPLOT is used to display Smith charts. And now the new version of SARK-100 Pc Scan has the possibility to set up algorithms to try to break the X sign. Using None will display the value when calculated without any algorithm. Using internal SARK calculations will only display positive values. AGLA Dan Maguire, explains how the algorithm works in ZPLOT. The Phase option looks for places where the Phase angle is approaching 0 or 180 degrees and then performs further processing to determine the correct mark for X. This option works in most cases and is an option that you should try first. The Rotation option works on the principal that Smith's chart traces should always rotate clockwise as the frequency increases. This option works even if the Phase angle is not close to 0 or 180 degrees but does not handle cases where smith traces have closed loops that are not centered in the center of the chart. ----- SARK-100 is an SWR analyzer and ranges from 160M to 6M. The Mini-60 and MR-100 also work with this software. One good feature is the PC interface which makes it possible to do some automation. I've created a program that scans the SARK-100 and plans the frequency of SWR Vs. Data can also be saved as an Excel file. Min frequency and matches are counted. Remember that you too USB and .NET Framework drivers are installed. No installation files in this version simply unzip the file and then start the program with the exe file. I have heard from users that they got an error after the scan was complete. This is because they do not have EXCEL installed. The program was developed with a screen resolution of 1920x1200. Some older PCs/Laptops can't handle it. The frame won't fit the screen and it can certainly be annoying. First set Make text and other items larger or smaller to smaller. And make sure you use the highest resolution and correct drivers for your graphics card and display. The current version can be re-measured. Drivers Chinese Clones sometimes change serial chips. If you can't get any contact between pc and Sark-100/Mini-60 you can try this driver. drivers.zip New update! The August-2018 news in August-2018 is more of a face lift and the exported X chart displays negative values. sark-100_aug2018.zip Here is my AmPro-80 antenna mounted on my roof (tested schack shape). I don't have room for a large 80m antenna. Older version. note sark-100_nov2017.zip. If you don't want to change how the X completion is displayed from the previous scan, you don't have to do anything. It is not possible to switch between a different X and a Smith-chart start date without re-scanning. If Use Raw Data is selected, the SARK-100 software performs a calculation of the raw value of the reflexmeter. Internal calculations of SARK-100 used when using raw data are not checked. Here is the Raw data used and all calculations made in the PC-Scan SARK-100 software: Phase Cellation is used. Only a piece of wire is connected to the SARK-100. (Nov-17 version) When export data is used, the data is stored in an Excel file. Several plots were also made. If you have bookmarks on this page, reload the page occasionally to make sure it's the latest version. If you like the program and feel like donating using the Donate button. Hint: Microsoft EXCEL needs to be installed. The reason is that the data is saved as an EXCEL file. And also for ZPLOT. There are reports that EXCEL Ver 2010 is not working. I haven't tried all the versions. All versions of Windows from Win-7 must work. If you don't see the SWR chart after the scan, you may need to set a point instead of a comma in the regional settings on your PC. You'll find it in the control panel. Smith's chart shows no negative values and the reason is the calculations performed inside the SARK-100. Calculations for X and Z can be seen below. To prevent the sharing of zero Z is set to 1. Modifications in SARK need to be made to prevent this. Available from Nov-2016 using Raw values. Below is the internal internal for Z and X. There is no manual for this program, but I think it is quite simple to understand. 1. Set SARK-100 for Pc communication. Press the Config button once and then the Val key once. 2. Open the com port in Sark-100 Pc Scan. 3. Select the band you want to scan. (Or enter the desired range) 4 manually. Choose how the X should be completed. 5. Press the SCAN button. If Auto Scan is checked the new scan will start automatically. 6. Now you can switch charts to see different data. 7. When the SCAN is complete, you can export the data with the EXPORT button. You must install Excel. 8. Keep in mind that it will take a while to handle the information if the frequency range is large and the steps are small. 9. Files saved in: c: Test-Report SARK-100 It is now possible to provide feedback on the Blog page. my HF and 6M antennas are polished MFJ-1775 that can be in rotatable. It's a great device that can be used for many different tasks. One thing I tested was my home-made antenna tuner that worked for 20 and 40M for my G5RV half antenna. My homebrew tuner that can match 20 bands && 40M with my G5RV half antenna. SARK-100 frequency test (Chinese model) Let's see if the analyzer keeps the manufacturer's promise? Spectral Purity: Harmonics down & TDB dB beyond 60 MHz Here is the 50MHz signal generated from SARK-100. And spectral purity looks fine, -60db. A simple frequency test is also performed. If you would like to see more projects, please goto: 

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