FRAME Communications TPM-50A Terminal RF Digital Power Meter Instruction Manual

Contents

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Product Usage Instructions

Powering On the Device

To start using the TPM-50A, press and hold the power button until the device powers on. The display screen will light up, indicating that the device is ready for operation.

Selecting Measurement Mode

Use the navigation buttons to select the desired measurement mode based on the network technology you want to analyze (e.g., GSM, CDMA, WiMAX).

Connecting the Device

Connect the device to the network or antenna using the N(Female) connector provided. Ensure a secure connection to prevent signal interference during measurements.

Taking Measurements

Follow the on-screen instructions to initiate measurements. The device will display various parameters such as forward power, VSWR, Return Loss, and more based on your selection.

Data Transfer and Monitoring

To transfer real-time data or monitor results on a PC, connect the device using the USB interface provided. Use the PC monitoring software for detailed analysis and tracking.

FAQ

Q: Can the TPM-50A measure 5G networks?

A: No, the TPM-50A is designed to measure 2G/3G/4G/WiMAX networks within the specified frequency range.

Q: Is the device waterproof?

A: No, the device is not waterproof. Avoid exposing it to moisture or liquid to prevent damage.

Q: How long does the battery last on a single charge?

A: The battery life of the TPM-50A varies based on usage but typically lasts several hours of continuous operation.

Product Overview

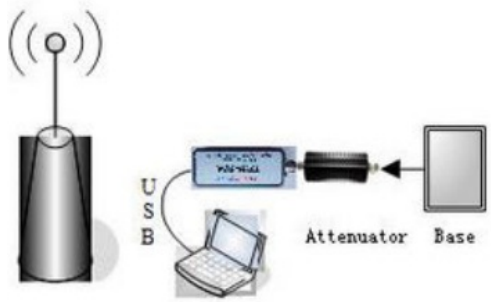
SPM-50A Spectrum Power Meter brings innovative testing concepts and approaches for RF cable system installation and maintenance. It combines the key functions of a spectrum analyser and power meter. SPM-50 is designed to measure the power characteristics of a particular signal among mixed signals transmitted on cable while quickly and accurately presenting the result in a power histogram or spectrum chart. SPM-50A supports normal, burst and frequency segment sweep modes to acquire information on forward power, reflected power, return loss, VSWR, peak power, crest, CCDF, duct cycle, etc.

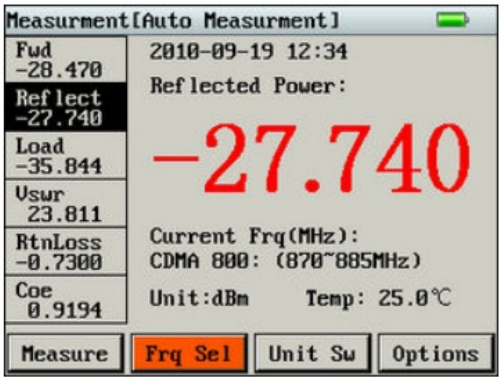
Functions

- Measures 2G/3G /4G/WiMAX wireless network, including GSM900/1800,CDMA800/1900, TD-SCDMA, WCDMA, CDMA2000, WLAN2.4G& WiMAXor user-defined band
- High-accuracy forward power, VSWR, Return Loss& load power measurement
- Peak power and Peak/Average Ratio measurement
- Burst power measurement
- CW power measurement
- Monitor function & test data saving
- PC monitoring software and handheld monitor for result display
- Standard N(Female) connector supports various transmission cable & antenna
- USB interface

Features

- Handheld & portable
- Measuring the burst signal can accurately identify the width 1 us -60 ms compared (about 50%) Of the signal, and give detailed measurements USB for real-time monitoring & data transfer Straightforward test result display CE, FCC certificates





Specifications

Model	TPM-50A
Frequency Range	50-4000MHz
Power Range	-40-20dBm
MAX Power	<23dBm
VSWR	<1.2
Accuracy	<= +/-0.3db (15~35℃) <= +/-0.5dB(0~50℃)
Burst Width	1us~60ms
Min. Measurement Frequency	15Hz
Video Bandwidth	5MHz
Minimum Pulse Width	200ns
Time Resolution	0.1us,1us,15us,150us
Peak Average Ratio	<12dB
CCDFRange	0.1% ~ 100%
CCDFAccuracy	±3%
Burst Signal Duty Ratio	0.1% ~ 100%
General Specifications	
Power Supply	USB
Operating Temperature	0℃~50℃
Storage Temperature	-20℃~70℃
Relative Humidity	0to85% (Non-condensing)
Weight	0.3kg
Dimensions (H.W.T)	105 (125) *45*35mm

Ordering Information

Standard Package:
TPM sensor, USB cable, Software CD, Soft carry bag, Warranty card, CE certificate, Certificate of calibration, and User manual.

- WWW.FRAME.CO.UK
- SALES@FRAME.CO.UK
- +44 1638 311650

Documents / Resources

	FRAME Communications TPM-50A Terminal RF Digital Power Meter [pdf] Instruction Manual TPM-50A, TPM-50A Terminal RF Digital Power Meter, Terminal RF Digital Power Meter, RF Digital Power Meter, Digital Power Meter, Power Meter, Meter

References

- **User Manual**