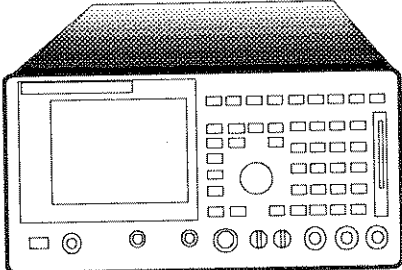




**The HP 8920/21
Test Set
User's Quick Reference**



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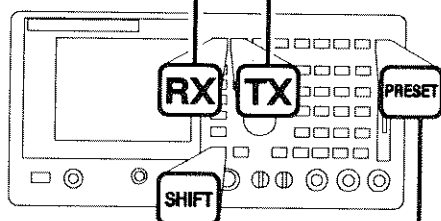
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Hewlett-Packard Company
Learning Products Department
TAF C34
Spokane, WA 99220 U.S.A.

The Instrument -At A Glance

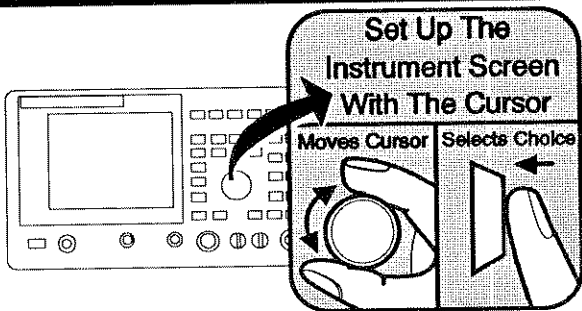
Use this key to perform a receiver test or to generate a modulated RF signal.

Use this key to perform a transmitter test or to monitor and measure an RF signal.



Use this key to activate the blue labeled functions. Press and release, then press the key below the blue label.

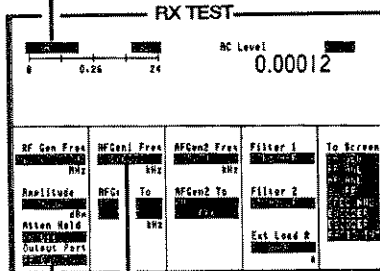
Use this key to reset all instrument settings.



Some Of The Choices Made On The Screen

One-of-many:

Pushing the knob will display a list of choices in the lower-right corner of the screen. Turning the knob moves the cursor through the list. Pushing the knob again selects the choice adjacent to the cursor.



Numeric Entry:

Pushing the knob will highlight the data. The highlighted data can be changed by turning the knob. Pushing the knob again enters the data.

Underlined:

Pushing the knob will move the underline below a choice. The underlined choice is active.

Table Of Contents

Getting Started Information

The Instrument - At A Glance.....	2
An example of how to make an FM radio SINAD check.....	6

Instrument Configuration

To save instrument settings.....	8
To recall instrument settings.....	9
To adjust the screen brightness.....	10
To change the unit of measure.....	11
To run a memory card program.....	12

RX Test And RF Generator

To set up single-tone modulation.....	14
To set up single-tone modulation with signaling.....	16
To set up two-tone modulation.....	18
To choose an RF output port.....	20

TX Test And RF Analyzer

To measure modulation.....	21
To measure RF frequency.....	22
To measure RF frequency error.....	23
To choose an RF input port.....	24

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-
-

AF Generators

- To output an AF sine wave.....25
- To output sine, square, triangle, or sawtooth waves.....26

AF Analyzer

- To measure audio distortion.....27
- To measure audio frequency.....28
- To measure audio voltage.....29

Oscilloscope

- To change the scope input.....30
- To change the scope vertical units per division.....31
- To change the scope horizontal units per division.....33
- To use the scope marker.....33
- To display a scope waveform before the trigger point...34

Spectrum Analyzer(Optional in HP 8920)

- To use the spectrum analyzer marker.....35
- To set up the spectrum analyzer tracking generator.....36

Signaling (Optional in HP 8920)

- To output tone sequential signaling.....38
- To output a DTMF sequence.....40
- To decode a signaling sequence.....42

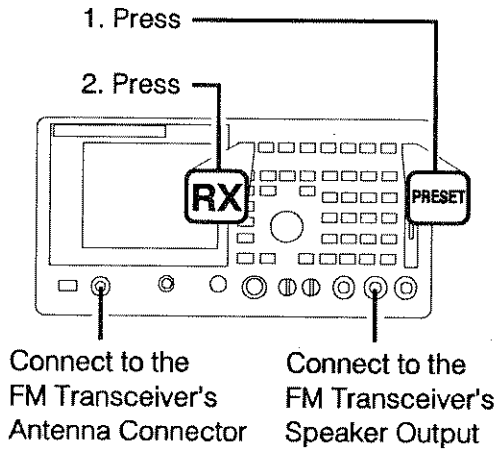
Reference Information

- Instrument terms and abbreviations.....45
- Index.....63

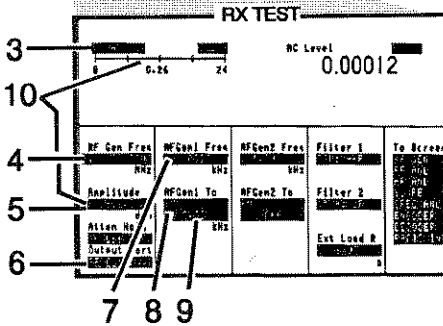
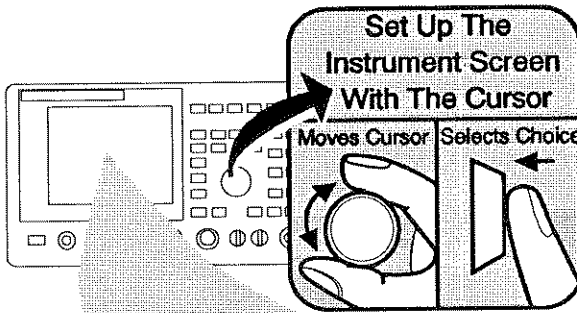
-
-
-
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-
-
-
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-
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-

An Example Of How To Make An FM Radio SINAD Check

Front Panel Set Up



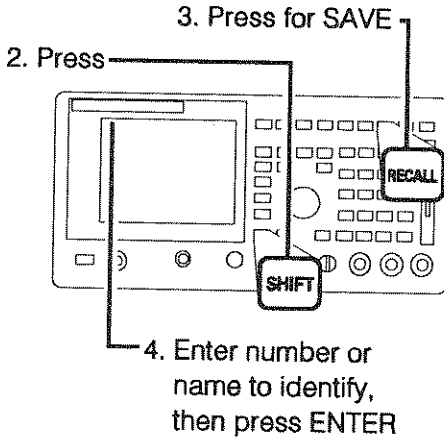
Screen Set Up



3. Verify that SINAD is displayed.
4. Enter the RF frequency.
5. Enter the RF amplitude.
6. Verify that RF Out is underlined.
7. Verify that the modulation frequency displayed is 1 kHz.
8. Verify that the modulation type displayed is FM.
9. Enter the deviation.
10. Adjust the RF amplitude for a SINAD reading of 12 dB.

To Save Instrument Settings

1. Set up the instrument as desired.

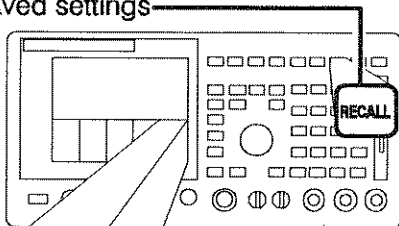


NOTE: The number of changes made to the screen determines memory consumption.

If memory capacity is exceeded, you will get an error message. Refer to the User's Guide and Reference manual.

To Recall Instrument Settings

1. Press recall to list the saved settings



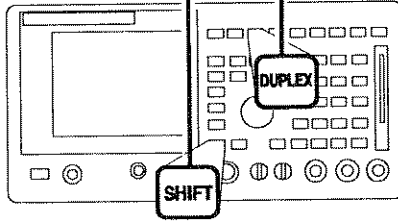
Recall:

2. Use the Knob to choose the saved setting from list of choices.

To Adjust The Screen Brightness

1. Press

2. Press for
CONFIG



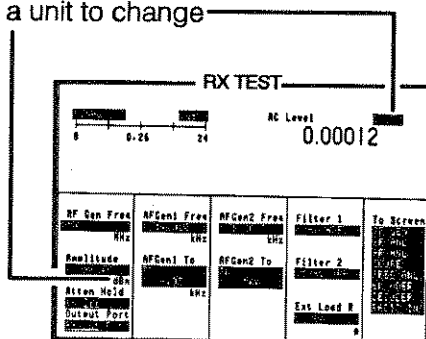
3. Vary the screen
intensity with the knob

CONFIGURE

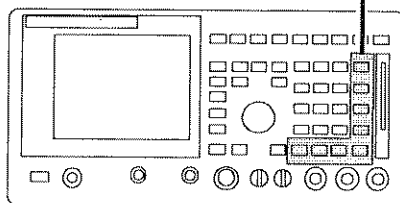
EXTRN Ensl	Intensity	HP-IB Adrs	Serial Baud	Firmware
Off	0-100%	0-15	19200	A-05-01
15 Offset	Beeper	Mode	Parity	
0-100%	On	0-1	None	
(Lan)-(Lan)	Low Battery	Print Adrs	Data Length	
0-100%	On	0-1	128	
Hz		Print Sp	Stop Length	
		0-1	0-1	
HPDn Volts	Date	Print	Adv Pace	
0-100%	MM/DD/YY	0-1	0-1	
	MMDDYY			
Range Hold	Time	18RSIC Echo	Int Pace	To Screen
0-100%	0-1	0-1	0-1	0-1
StatusAuto	MM.HH	Print Echo		0-1
0-1		0-1		0-1
				0-1
Print Tissue				0-1
				0-1
External Disk Specification				0-1
				0-1

To Change The Unit Of Measure

1. Position the cursor at a unit to change

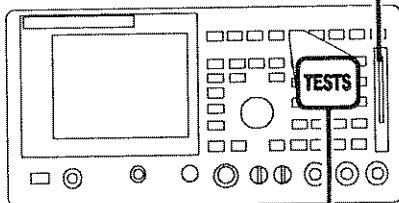


2. Press desired unit



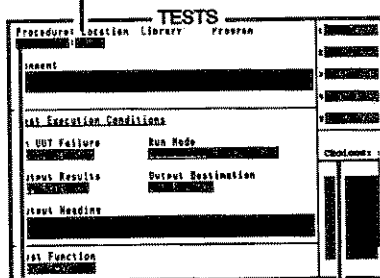
To Run A Memory Card Program

1. Insert a memory card



2. Press

3. List the choices



4. Choose Card

5. List the choices

6. Choose a program

7. Test Configuration

Edit the test specifications

Edit the test frequencies

Edit the test sequence

Edit the test configuration and/
or Edit the test parameters

TESTS		
Pract	Test Location	Library Program
Conn		
Test Execution Conditions		
On HO	Failure	Run Mode
Outro	Results	Output Destination
Outro	Heading	
Test Function		

To Screen

NOTE: Press the TESTS key
to exit an editing screen.

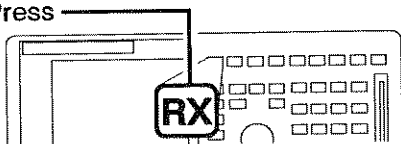
8. Run the program

TESTS		
Procedural	Location	Library Program
Comment		
Test Execution Conditions		
On HOY Failure	Run Mode	
Output Results	Output Destination	
Output Heading		
Test Function		

To Screen

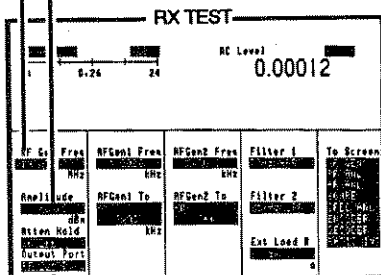
To Set Up Single-Tone Modulation

1. Press



2. Enter the carrier frequency

3. Enter the carrier amplitude



4. Select the Output Port

5. Enter the modulation frequency

7. Choose the modulation type

RX TEST

AC Level 0.0001

RF Gen Freq MHz	RFGen1 Freq MHz	RFGen2 Freq MHz	Filter 1 MHz	Channel1
Amplitude dBm	RFGen1 To MHz	RFGen2 To MHz	Filter 2 MHz	
Atten Hold dB	Output Port dBm		Ext Load B dB	

6. List the modulation choices

8. Enter the depth or deviation

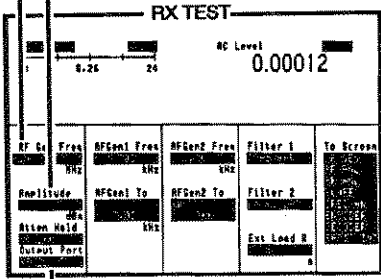
To Set Up Single-Tone Modulation With Signaling

1. Press



2. Enter the carrier frequency

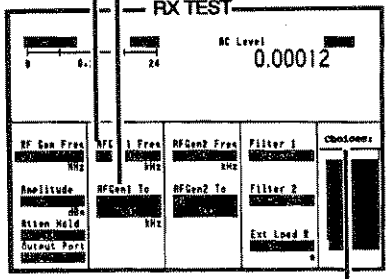
3. Enter the carrier amplitude



4. Select the Output Port

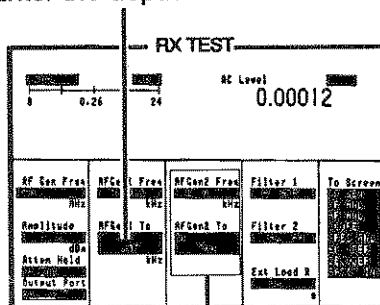
5. Enter the modulation frequency

6. List the modulation choices



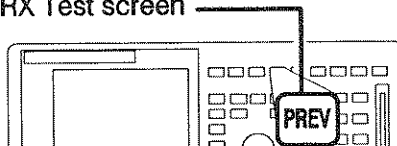
7. Choose the modulation type

8. Enter the depth or deviation

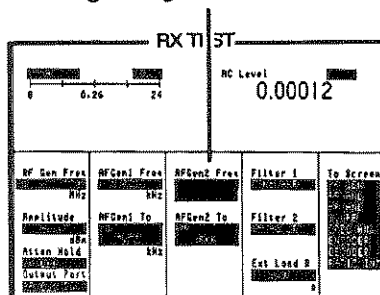


9. Refer to page 38 to set up the signaling then return to step 10
NOTE: The modulation type must be the same in AFGen 1 and AFGen 2.

10. Press to return to the RX Test screen

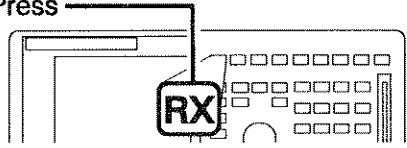


11. Turn signaling on/off



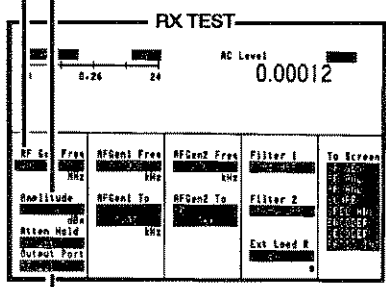
To Set Up Two-Tone Modulation

1. Press



2. Enter the carrier frequency

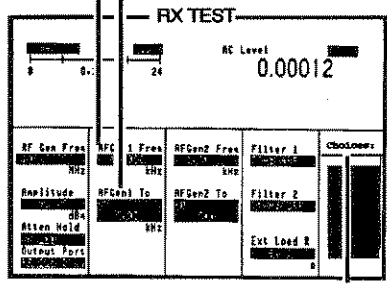
3. Enter the carrier amplitude



4. Select the Output Port

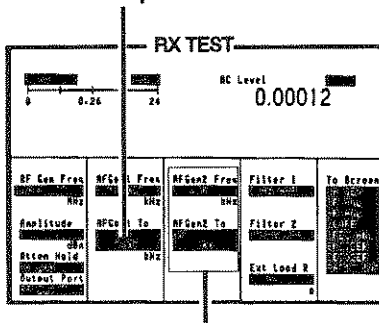
5. Enter the modulation frequency

6. List the modulation choices



7. Choose the modulation type

8. Enter the depth or deviation

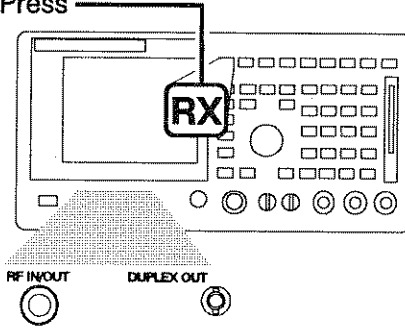


9. Repeat steps 2 thru 5 for AFGen 2

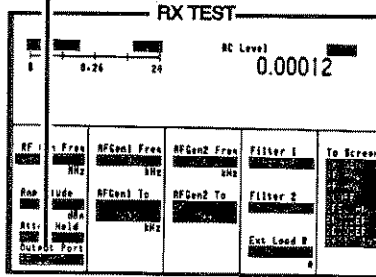
NOTE: The modulation type must be the same in AFGen 1 and AFGen 2.

To Choose An RF Output Port

1. Press

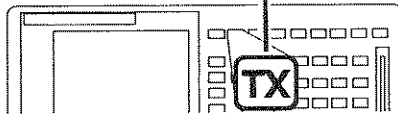


2. Underline RF Out or Dupl



To Measure Modulation

1. Press



2. Select the Tune Mode

2a. Enter the Tune Freq if
Manual Tune Mode is used

TX TEST				
T. Frequency	149.978076		FR Deviation	80.81
T. Power	0.0001			6.61620
Tune Mode	Input Ports	RF In/In	RF Out/Freq	To Screen
Tune Freq	IF Filter	Filter 1	kHz	
TX Pwr Zero	Ext TX Key	Detector	AV	

3. Select the Input Port

4. List the demodulation choices

5. Choose the demodulation type

TX TEST				
TX Frequency	149.978076		FR Deviation	80.81
TX Power	0.0001			6.61620
Tune Mode	Input Ports	RF In/In	RF Out/Freq	choices
Tune Freq	IF Filter	Filter 1	kHz	
TX Pwr Zero	Ext TX Key	Detector	AV	

6. Read

To Measure RF Frequency

1. Press



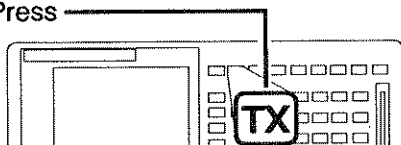
2. Underline Auto

3. Read

TX TEST				
Frequency		FR Deviation		
149.978076		80.81		
Power		FR Deviation		
0.0001		6.61620		
Tune Mode	Input Port	RF Amp In	RFCont Freq	To Screen
Tune Freq	IF Filter	Filter 1	RFCont Lvl	
MHz		Filter 2		
TX Bar Zero	Ext TX Lev	By-Products		
		Detector		

To Measure RF Frequency Error

1. Press



2. Underline Manual

3. Enter the Tune Freq

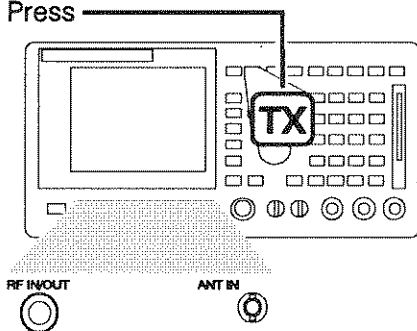
4. Select the Input Port

- TX TEST				
Tx Error	149.978	176	FM Deviation	80.81
Tx over	0000			6.61620
Tune Mode	Input Port	AF Amplitude	AFCent Freq	To Screen
Tune Freq	F Filter	Filter 1	AFCent Lvl	
TX Pwr Zero	wt TX lev	De-Emphasis		
		Detector		

5. Read

To Choose An RF Input Port

1. Press

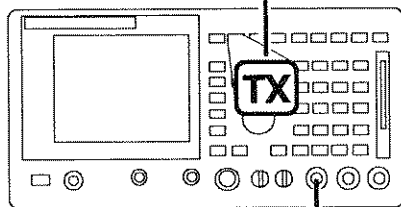


2. Underline RF In or Ant

TX TEST				
TX Frequency 149.97	076	FR Deviation 80.81		
TX Power 0.00		6.61620		
Tune Mode	Input Port	RF In1 In	RFGain Freq	To Screen
Tune Freq MHz	IF Filter	Filter 1 Filter 2	RFGain Lvl	
TX Per Zero	Est TX lev	On-Envelope Detector		

To Output An AF Sine Wave

1. Press



2. Connect to AUDIO OUT

3. Enter the audio level

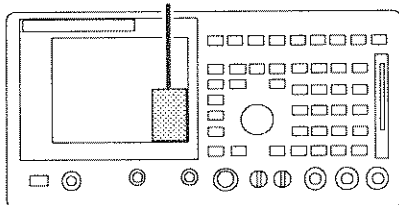
4. Enter the audio frequency

TX TEST				
TX Frequency	149.978076	FR 0	81	81
TX Power	0.0001		5.6	620
Tune Mode	Input Ports	AF Mod In	AFCont	To Screen
Tune Freq	IF Filter	Filter 1	AFCont	
TX Per Zero	Ext TX Rev	Filter 2	AFCont	
		Disturbance		
		Selector		

To Output A Sine, Square, Triangle, Or Sawtooth Waveform*

*Option 004 required in HP 8920

1. Choose ENCODER from the To Screen



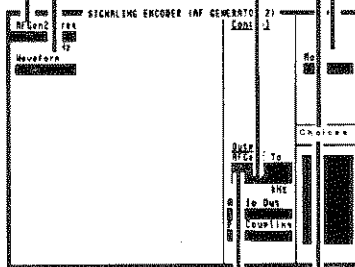
2. Set the Mode to Func Gen

3. Enter the frequency

4. List the choices

5. Choose the waveform

8. Enter the level

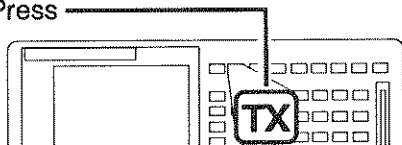


6. List the choices

7. Choose Audio Out

To Measure Audio Distortion

1. Press



2. List the choices

3. Choose Distn

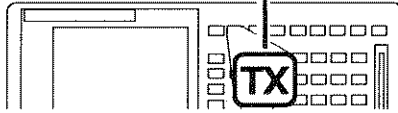
TX TEST					
TX Frequency		149.978076		Distn	
TX Power		0.0001		6.61620	
Tune Mode	Input Port	AF Amt In	AFCo	Freq	Chdwns
Tune Freq	IF Filter	File	1	BW	Lvl
		File	2	AV	
TX Per Zero	Est TX Lev	Le=	0.0001		
		Le=	0.0001		

4. Read

NOTE: Measures the distortion on a 1 kHz tone using the input displayed here.

To Measure Audio Frequency

1. Press



2. List the choices

3. Choose
AF Freq

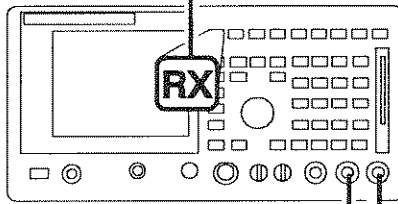
TX TEST						
TX Frequency		FR rejection				
149.978076		80.81				
TX Power		6.61620				
0.0001						
Tune Mode	Input Port	AF In/Ex	AF In	Freq	Cholesterol	
Tune Freq	IF Filter	FIL1	1	MHz		
Hz		FIL2	2	Lvl		
TX Pwr Zero	Est. TX lev	1st	Swiss	AV		
		2nd	Swiss			
		3rd	Swiss			
		4th	Swiss			
		5th	Swiss			

4. Read

NOTE: Measures the frequency of the input displayed here.

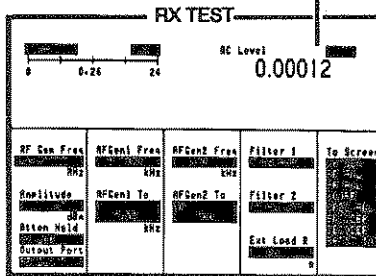
To Measure Audio Voltage

1. Press



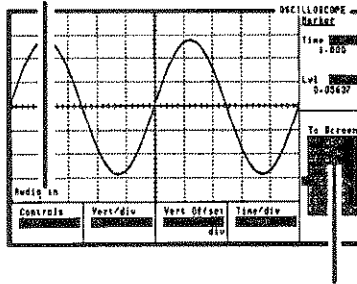
2. Connect to AUDIO IN

3. Read



To Change The Scope Input

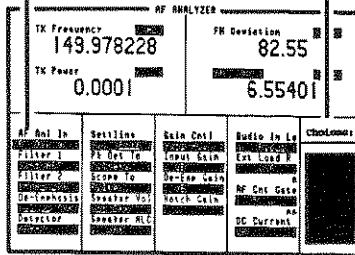
1. Verify which input is selected



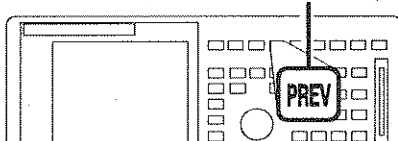
2. Select AF Anl from To Screen:

3. List the choices

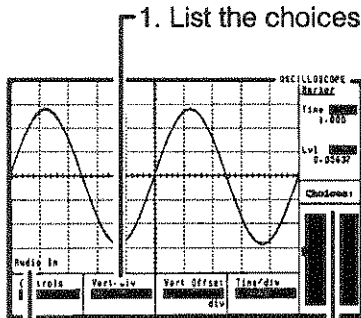
4. Choose the input



5. Press PREV to return to the scope



To Change The Scope Vertical Units Per Division



2. Choose a vertical
units per division

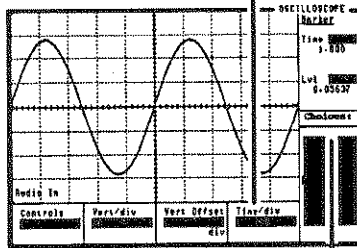
Scope Input Determines
Unit of Measure

Scope Input	Unit of Measure
Audio In	V
FM	kHz
AM	%
SSB	mV

NOTE: To change the scope
input see page 30.

To Change The Scope Horizontal Units Per Division

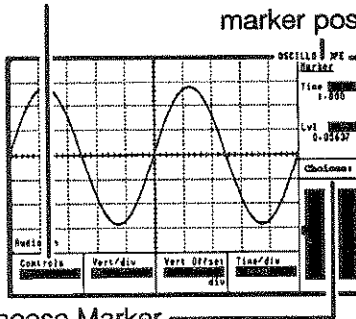
1. List the choices



2. Choose a time

To Use The Scope Marker

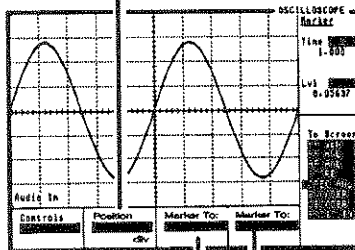
1. List the choices
4. Read the marker position



2. Choose Marker

3. Marker position

Manually position the marker with the knob



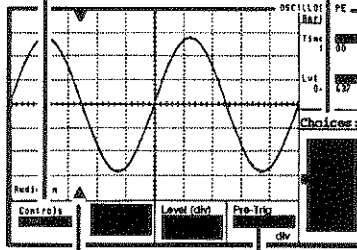
Push the knob to move the marker to the peak of the signal

Push the knob to change the center frequency or ref level to marker's position

To Display A Scope Waveform Before The Trigger Point

1. List the choices

2. Choose Trigger

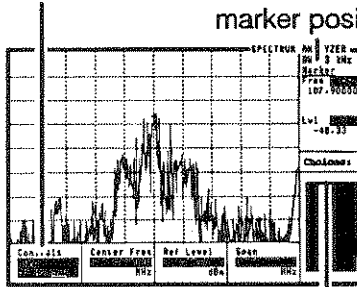


3. Adjust the pre-Trigger position with the knob

Pre-trigger cursor

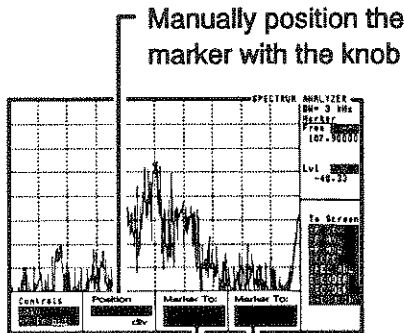
To Use The Spectrum Analyzer Marker

1. List the choices
4. Read the marker position



2. Choose Marker

3. Marker position

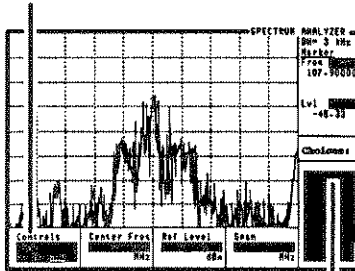


Push the knob to move the marker to the peak of the signal

Push the knob to change the center frequency or ref level to marker's position

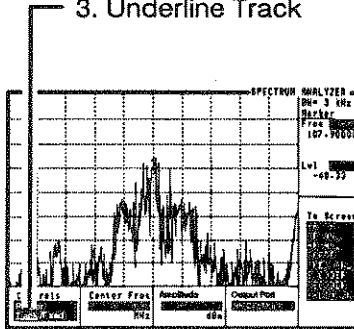
To Set Up The Spectrum Analyzer Tracking Generator

1. List the choices



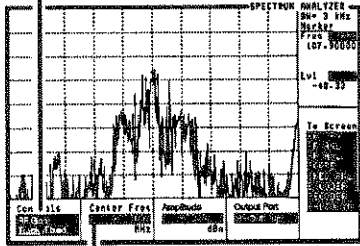
2. Choose RF Gen

3. Underline Track





4. Adjust the offset frequency using the Knob

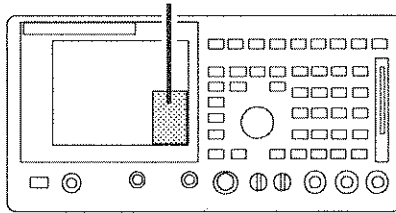


5. Enter the amplitude

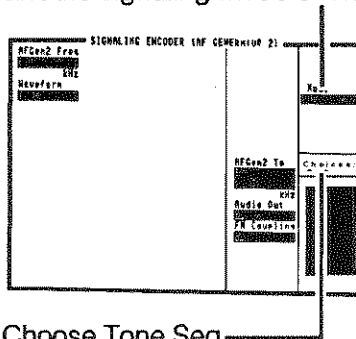
To Output Tone Sequential Signaling*

*Option 004 Required in HP 8920

1. Choose ENCODER from the To Screen

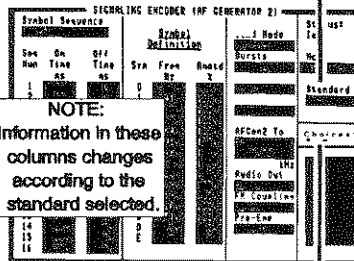


2. List the signaling mode choices



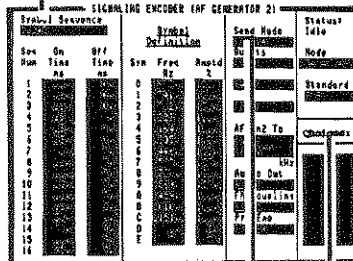
3. Choose Tone Seq

4. List the standard choices



5. Choose a standard

6. Enter a tone sequence using the symbols 0-9, A-E, and space

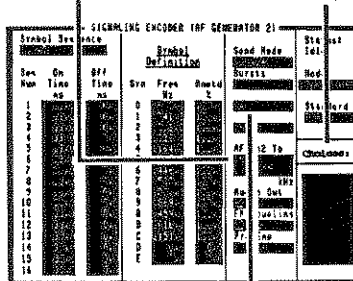


7. List the Send Mode choices

8. Choose the mode

9. List the output choices

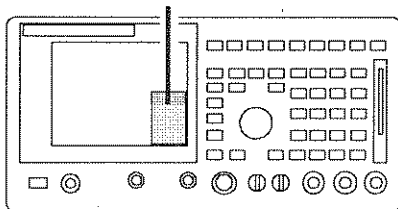
10. Choose the output



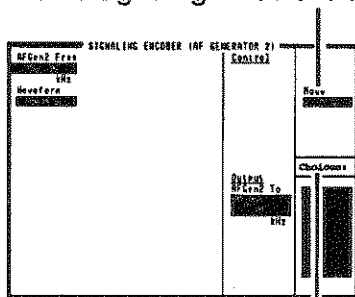
11. Select Send

To Output A DTMF Sequence

1. Choose ENCODER from the To Screen



2. List the signaling mode choices



3. Choose DTMF

4. Enter the sequence

SIGNALING ENCODER (RF GENERATOR 2)				Send Mode	Status Idle
Sequence	On Time	Send Mode		Mode	
Twist	Off Time	Off	is	Standard	
Symbol Frequencies (Hz):		Off	no	Standard	
1	2	3	A	Off	
4	5	6	B	Off	
7	8	9	C	Off	
*	0	#	D	Off	

5. List the Send Mode choices

6. Choose the mode

7. List the output choices

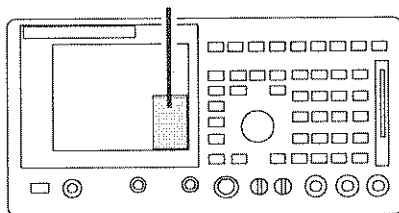
8. Choose the output

SIGNALING ENCODER (RF GENERATOR 2)				Send Mode	Status Idle
Sequence	On Time	Send Mode		Mode	
Twist	Off Time	Off	is	Standard	
Symbol Frequencies (Hz):		Off	no	Standard	
1	2	3	A	Off	
4	5	6	B	Off	
7	8	9	C	Off	
*	0	#	D	Off	

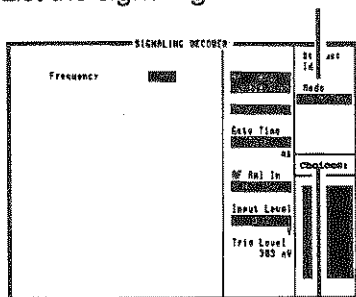
9. Select Send

To Decode A Signaling Sequence

1. Choose DECODER from the To Screen

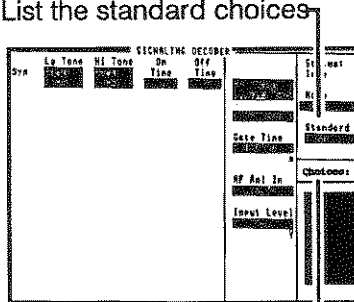


2. List the signaling mode choices

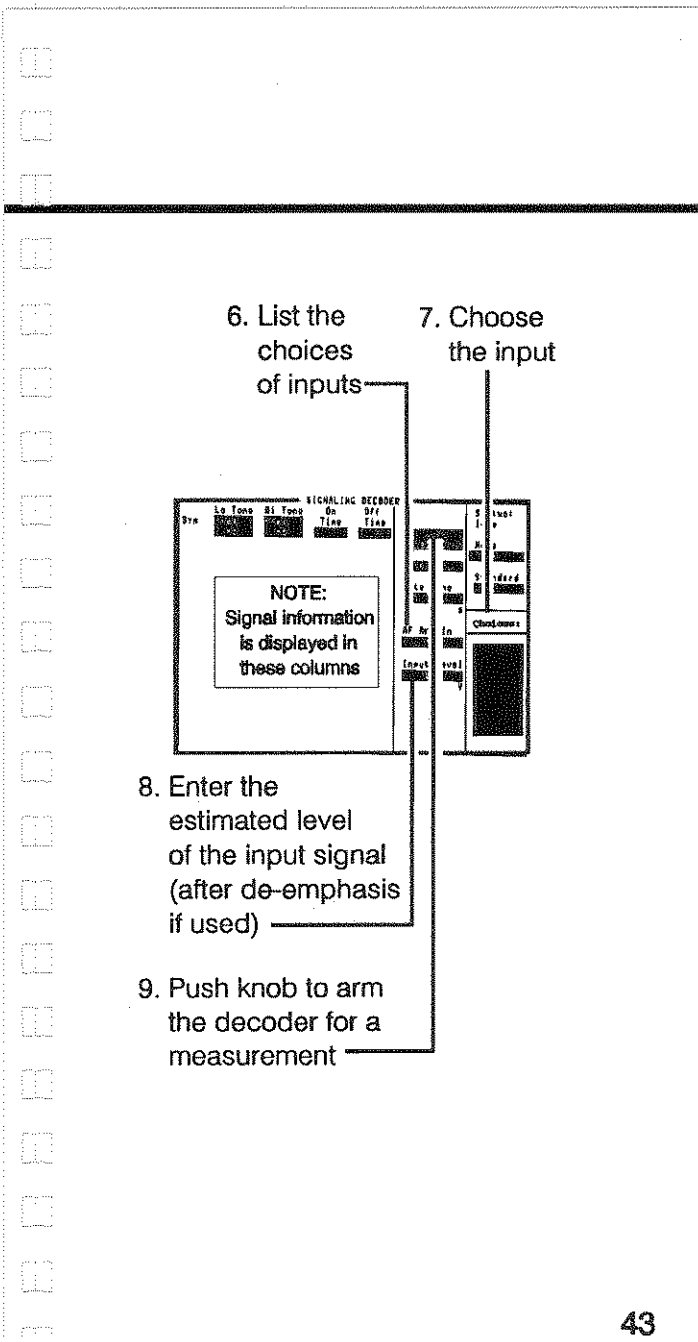


3. Choose the signaling mode

4. List the standard choices

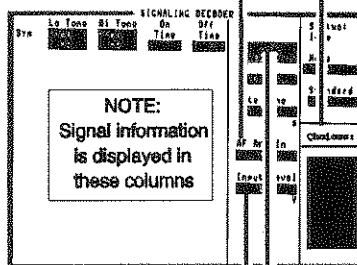


5. Choose a standard



6. List the choices of inputs

7. Choose the input



8. Enter the estimated level of the input signal (after de-emphasis if used)

9. Push knob to arm the decoder for a measurement

2022年12月20日

Instrument Terms And Abbreviations

Refer to the Instrument User's Guide
if more information is needed.

AF Anl- Audio Frequency Analyzer.

AF Anl In- Audio Frequency Analyzer
Input.

AF Cnt Gate- Audio Frequency Counter
Gate Time.

AF Gen1- Audio Frequency Generator 1.

AF Gen2- Audio Frequency Generator 2.
Also used as the signaling
Encoder.

Ant- Antenna.

Instrument Terms And Abbreviations

ANT IN- Antenna Input. An alternate input connector for the RF Analyzer and Spectrum Analyzer for low level measurements. RF power **CANNOT** be measured from this connector.

ASSIGN. The key used to assign USER keys to instrument settings. To assign a USER key, position the cursor adjacent to the setting, press **SHIFT**, **ASSIGN**, and then one of the user keys k1-k5 or k1'-k3'.

Atten Hold - Attenuator Hold. A setting that prevents the RF Generator output attenuator from changing ranges, limiting the amplitude adjustment range.

AUDIO IN (HI). External input connector for audio measurements.

AUDIO IN (LO). External input connector for floating measurements. To ground or float the connector use the Audio In Lo field on the AF ANL screen.

AUDIO OUT. External output connector for AF Gen1 and/or AFGen2 (Encoder).

AVG- Average. The key used to do measurement averaging. When used it smooths out the measurement of rapidly fluctuating signals. To activate averaging, position the cursor adjacent to the unit of measure of the measurement. Then press SHIFT, AVG, ENTER. To cancel averaging, press SHIFT, AVG, ON/OFF.

CONFIG- Configure. The key used to access the CONFIGURE screen to change the HP-IB address, define the printer type, setup serial communications, and several other instrument settings.

Instrument Terms And Abbreviations

DC FM Zero. This function removes DC offset when using DC-coupled FM.

DECODER. Signaling decoder.

Dupl- Duplex.

DUPLEX. The key used to access the DUPLEX TEST screen for simultaneous transmitter/receiver testing.

DUPLEX OUT. An alternate output connector for the RF Generator and Spectrum Analyzer Tracking Generator.

ENCODER. Signaling encoder.

Ext Load R- External Load Resistance.

This function is used to specify the impedance of the device connected to the AUDIO IN connector for calibrated audio power measurements.

Ext TX Key- External Transmitter Key.

This function keys a transmitter through the MIC/ACC connector.

Filter 1. The AF Analyzer high-pass and optional filters.

Filter 2. The AF Analyzer low-pass and optional filters.

Instrument Terms And Abbreviations

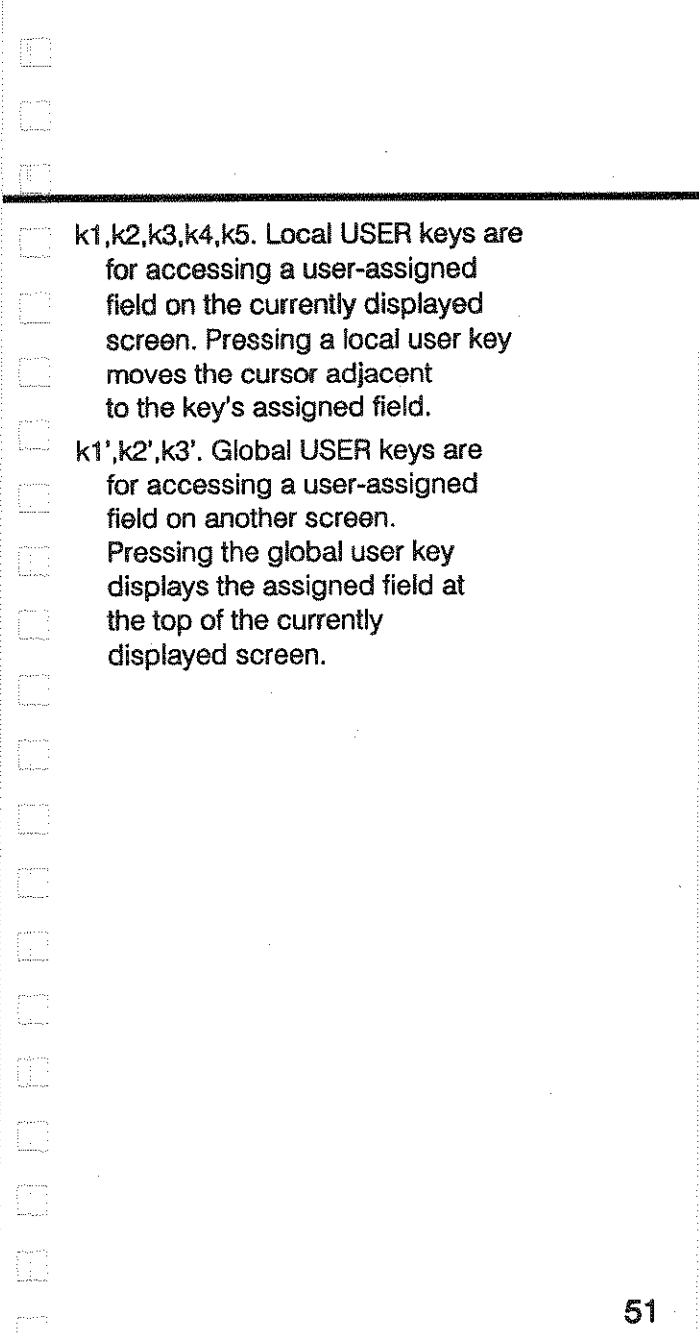
Gain Cntl- Gain Control. This function selects the automatic or manual AF Analyzer input, De-Emp, and Notch gains. Auto is normally used.

HI LIMIT/LO LIMIT. The keys used to set high and low measurement limits. To enter the limits, position the cursor adjacent to the unit-of-measure of the measurement, then press SHIFT, LO or HI LIMIT, a value, ENTER. To cancel limits, press SHIFT, LO or HI LIMIT, ON/OFF.

HOLD. The key used to freeze information displayed on the screen. Select HOLD again to release the display.

IF Filter- Intermediate Frequency Filter. A field that selects the RF Analyzer IF bandwidth.

Input Atten- Input Attenuator.



k1,k2,k3,k4,k5. Local USER keys are for accessing a user-assigned field on the currently displayed screen. Pressing a local user key moves the cursor adjacent to the key's assigned field.

k1',k2',k3'. Global USER keys are for accessing a user-assigned field on another screen. Pressing the global user key displays the assigned field at the top of the currently displayed screen.

Instrument Terms And Abbreviations

MEAS RESET- Measurement Reset.

METER. The key used to display the analog meter. To set up the meter, position the cursor adjacent to the unit of measure of the measurement to display, then press SHIFT, METER.

MIC/ACC- Microphone/Accessory. A connector that is used to key a transmitter and/or modulate a carrier with a microphone.

Mic Pre-Emp (Auto)- Microphone Pre-Emphasis. This function automatically switches in and out the pre-emphasis network (750us).

Mic Pre-Emp (Hold)- Microphone Pre-Emphasis. This function allows manual switching in and out of the pre-emphasis network when FM modulation is used.



Mod In To- Modulation In To. This function selects the RF Generator's modulation type when using the Modulation Input and MIC/ACC connectors for external modulation.

Normalize (A-B). A Spectrum Analyzer entry to display the difference between the current screen and a previously saved screen.

Normalize (A Only). A Spectrum Analyzer entry to select a normal display

Normalize (Save B). A Spectrum Analyzer entry to save the current display.

Instrument Terms And Abbreviations

Pk Det To (De-Emp)- Peak Detector To (De-Emphasis). This function sets up the AF Analyzer to measure the peak voltage after the de-emphasis network.

Pk Det To (Filters)- Peak Detector To (Filters). This function sets up the AF Analyzer to measure the peak voltage after audio filters 1 and 2 and before the de-emphasis network.

PREV- Previous screen. The key used to toggle between the currently displayed screen and the previously accessed screen.

PRESET. The key used to reset the instrument's settings to the factory-defined default states.

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PRINT. The key used to print the currently displayed screen if a printer is connected to the rear-panel's SERIAL PORT or the HP-IB connector. To set up the instrument for printing, press **SHIFT, CONFIG** to access the **CONFIGURE** screen. On the screen select the printer port in the **Print To** field. For HP-IB printers enter the printers address in the **Print Adrs** field. This is a graphic pixel dump that requires an HP graphic-compatible printer.

Instrument Terms And Abbreviations

Range Hold. This function selects the automatic or manual control of all AF Analyzer and RF Analyzer gain, and tuning adjustments.

RECALL. The key used to recall previously saved settings.

REF SET- Reference Set. The key used enter a measurement reference level. To enter a reference level, position the cursor adjacent to the unit of measure of the measurement. Then press SHIFT, REF SET, enter the ref level*, and complete the entry by pressing ENTER. To cancel ref set, press SHIFT, REF SET, ON/OFF.

*The currently displayed measurement value is used as the reference if you do not enter a specific value.



RELEASE. The key used to clear a user key's assignment.

RF Ani- Radio Frequency Analyzer.

RF Cnt Gate- Radio Frequency Counter Gate Time.

RF Gen- Radio Frequency Generator.

RF Offset (Gen-Ani)- Radio Frequency Offset (Generator-Analyzer). An entry that sets up the difference between the RF Generator and RF Analyzer frequencies. Automatically offsets the RF Analyzer tune frequency from the RF Generator frequency.

Instrument Terms And Abbreviations

RX- Receiver Test. The key used to access the RX TEST screen for performing tests on a radio receiver.

RX/TX Cntl (Auto)- RX TEST/TX TEST screen Control (Auto). This function enables automatic switching between the RX TEST and TX TEST screens.

RX/TX Cntl (Carrier)- Receiver/Transmitter Control (Carrier). This function automatically switches RX TEST and TX TEST screens when a signal is detected at the RF IN/OUT or ANT IN connector and Auto is selected in the RX/TX Cntl field.

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RX/TX Cntl (Manual)- RX TEST and TX TEST screen Control (Manual).
This function disables automatic switching between the RX TEST and TX TEST screens.



RX/TX Cntl (ptt)- Receiver/Transmitter Control (push to talk). This function switches the instrument to the RX TEST screen when a microphone connected to the MIC/ACC connector is keyed, and Auto is selected in the RX/TX Cntl field.



Instrument Terms And Abbreviations

SAVE. The key used to save settings displayed on the screen. The number of settings that can be saved depends on the number of entries made since the default settings.

SCOPE- Oscilloscope. This selection accesses the OSCILLOSCOPE screen.

Sensitivity. A field that sets up the RF Analyzer's input sensitivity at the ANT IN connector. Measurements may not be as accurate when using High sensitivity.

Settling (Fast). This function sets up the AF Analyzer for fast settling. Use for measurements above 200 Hz.

Settling (Slow). This function sets up the AF Analyzer for slow settling. Use for measurements below 200 Hz.

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SPEC ANL- Spectrum Analyzer. This selection accesses the **SPECTRUM ANALZER** screen.

Squelch (Fixed). The instrument is set to the factory defined squelch level.

Squelch (Open). The instrument is set for no squelch.

Squelch (Pot). The instrument is set to manually adjust the squelch with the knob.

Instrument Terms And Abbreviations

TESTS. The key used to access the TESTS screen for running IBASIC programs.

Tune Mode (Auto). This function sets up the RF Analyzer to tune to the input signal and displays the signal's frequency.

Tune Mode (Manual). This function sets up the RF Analyzer to tune to the manually-entered frequency and displays the difference between the input signal and the manually entered frequency.

TX- Transmitter Test. The key used to access the TX TEST screen for performing tests on a radio transmitter.

TX Pwr Meas- Transmitter Power Measurement Zero. This function zeros the RF power meter.

Index

- AM,
 - demodulating 21
 - modulating 15
- analog meter 52
- Analyzer,
 - RF 21,22,23,24
- antenna 46
- audio 29
- audio distortion 27
- audio frequency 28
- audio power 49
- audio voltage 29
- Counter,
 - AF 28
 - RF 22,23
- decode 42
- DECODER 42
- demodulation type 21
- DTMF 40
- duplex out,
 - RF Gen output 20
- ENCODER 38
- FM,
 - demodulating 21
 - modulating 16
- Function Generator 26
- Generator,
 - AF 25
 - Function 26
 - RF 14,16,18,20
- HP-IB address 47
- input,
 - Oscilloscope 30
- instrument settings,
 - recalling 9
 - saving 8
- intensity,
 - screen 10
- marker,
 - Spectrum Analyzer 35
 - Oscilloscope 33
- measurement averaging 47
- measurement limits 50
- measurement SINAD 6
- measurement,
 - audio frequency 28
 - audio level 29
 - audio power 49
 - audio voltage 29
 - distortion 27
 - modulation 21
 - RF frequency 22
 - RF frequency error 23

Index

- memory card 12
- modulation,
 - AM 14
 - FM 14
 - signaling 16
 - two-tone 18
- modulation
 - measurement 21
- Oscilloscope
 - input 30
 - marker 33
 - pre-trigger 34
 - trigger 34
 - vertical units 31
 - horizontal units 32
 - print 55
- programs,
 - running 12
 - test parameters 13
 - test sequences 13
 - test specifications 13
- reference set 56
- RF frequency 22
- RF frequency error 23
- RF in/out,
 - RF Analyzer input 24
 - RF Gen output 20
 - RF output port 20
- save 8
- sawtooth wave 26
- scope 30,31,32,33,34
- scope input 30
- Signal Generator 14,16,18,20
- signaling 16,38,40
- signaling,
 - decoding 42
- SINAD 6
- single- tone modulation 14
- Spectrum Analyzer 35
- Spectrum Analyzer
 - marker 35
- square wave 26
- time/div,
 - Oscilloscope 32
- tone generator 25
- tone seq 38
- tone sequential 38
- Tracking Generator 36
- triangle wave 26
- trigger,
 - Oscilloscope 34
- two-tone modulation 18
- units,
 - changing 11
- user keys assignment 46
- vert/div ,
 - Oscilloscope 31