

83620A 10 MHz-20 GHz
8360 SERIES SYNTHESIZED SWEEPER

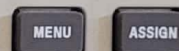
MENU SELECT



SYSTEM

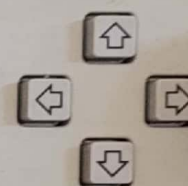


USER DEFINED



ENTRY
ON/OFF

ENTRY
ON



SWEEP



FREQUENCY



POWER



POWER



INSTRUMENT STATE

PRESET

INSTR
CHECK

LOCAL

R S
HP-IB
STATUS

PULSE



MODULATION
AM



FM



EXT ALC

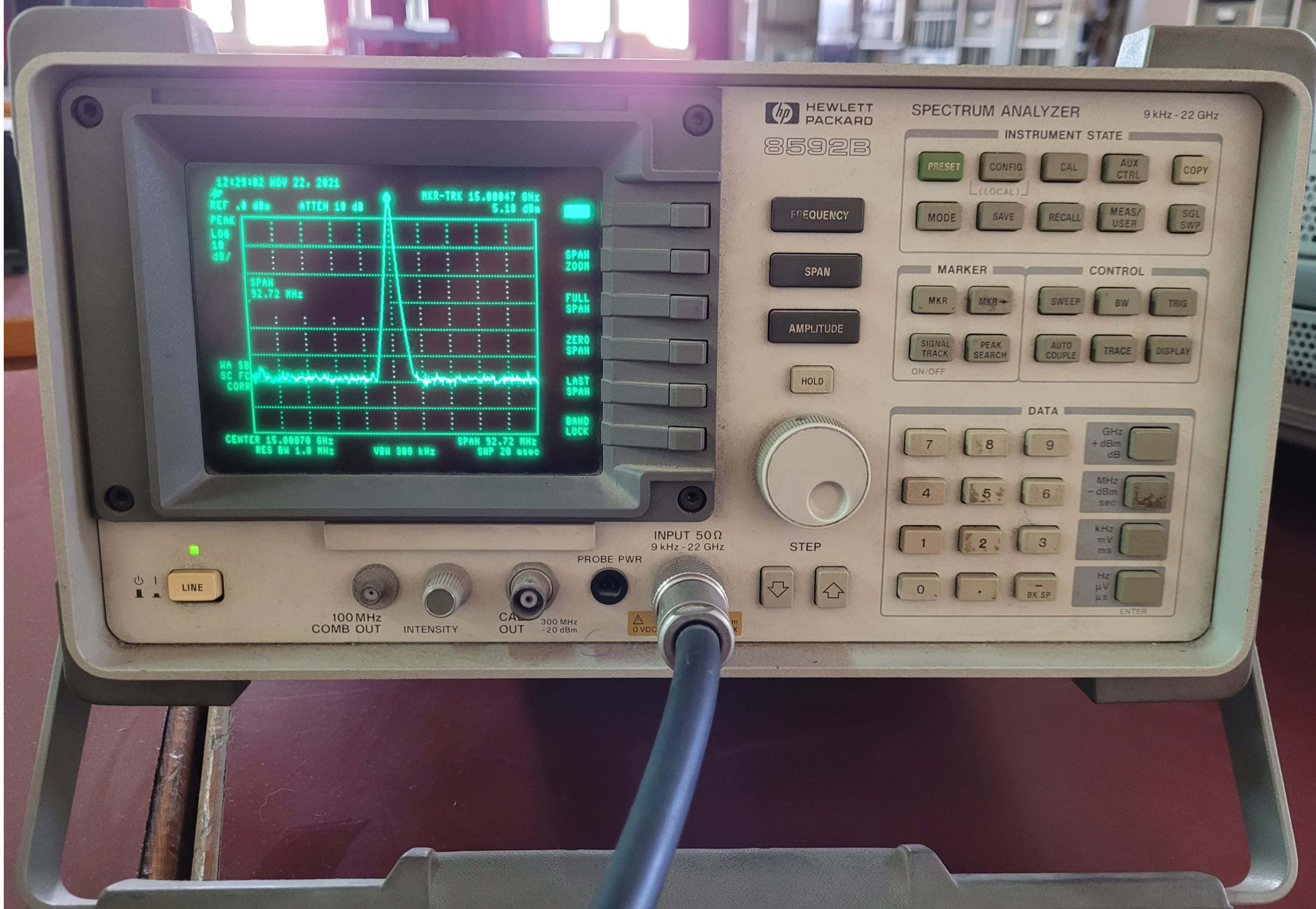


SOURCE MODULE INTERFACE



RF OUTPUT





hp HEWLETT
PACKARD

8592B

SPECTRUM ANALYZER

9 kHz - 22 GHz

INSTRUMENT STATE

PRESET CONFIG CAL AUX CTRL COPY
(LOCAL)
MODE SAVE RECALL MEAS/ USER SGL SWP

FREQUENCY

SPAN

AMPLITUDE

HOLD

MARKER

MKR MKR→

SIGNAL TRACK PEAK SEARCH
ON/OFF

CONTROL

SWEEP BW TRIG

AUTO COUPLE TRACE DISPLAY

DATA

7 8 9 GHz +dBm dB
4 5 6 MHz -dBm sec
1 2 3 kHz mV ms
0 . - BK SP Hz μ V μ s
ENTER

12:29:02 NOV 22, 2021

REF -9 dBm

ATTEN 10 dB

NRK-TRK 15.00047 GHz
5.10 dBm

PEAK
LOO
10
dB/

SPAN
92.72 MHz

MA SB
SC FC
CORR

CENTER 15.00070 GHz
RES BW 1.0 MHz

VBW 300 kHz

SPAN 92.72 MHz
SMP 20 nsec

SPAN
ZOOM

FULL
SPAN

ZERO
SPAN

LAST
SPAN

BAND
LOCK

POWER
ON/OFF

LINE

100 MHz
COMB OUT

INTENSITY

CAL
OUT

300 MHz
-20 dBm

PROBE PWR

INPUT 50 Ω
9 kHz - 22 GHz

STEP



Tektronix

2235A 100 MHz OSCILLOSCOPE

INTENSITY

A — B



TRACE ROTATION



BEAM FIND



SCALE ILLUM



FOCUS



POWER



VERTICAL
A/B SWP SEP



MODE



CH 1 VOLTS/DIV



AC GND DC

CH 1 OR X

1MΩ 20pF

≤400V pk

CH 2 VOLTS/DIV



AC GND DC

CH 2 OR Y

1MΩ 20pF

≤400V pk

HORIZONTAL

POSITION



MODE



A AND B SEC/DIV



ms

B DELAY TIME

POSITION

1MΩ 20pF

≤400V pk

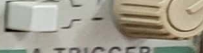
≤100mV/DIV

VAR HOLDOFF

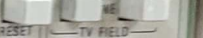


B TRIGGER

LEVEL



TRIG SLOPE



A TRIGGER

LEVEL



TRIG SLOPE



EXT INPUT

1MΩ 20pF

≤400V pk

≤100mV/DIV



8116A PULSE/FUNCTION GENERATOR 50 MHz HEWLETT • PACKARD

MODE CTRL
NORM I.SWP FM
RMT TRIG E.SWP AM
ADS GATE I.BUR PWM
SRQ E.WID E.BUR VCO

LCL

-90°
MAN 1 CYCLE

LINE
EXT INPUT
LEVEL
-10V +10V

~ ~

CTRL INPUT
TRIG OUTPUT

MHz
kHz
Hz
mHz
%
V
mV
s
ms
 μ s
ns

AUTO VERNIER RANGE

AUTO LIMIT COMPL DISABLE

OUTPUT

HP HEWLETT PACKARD 331
LINE
STATUS
RMT
LTN
TLX
SRQ
Lcl
Addr

MODE
Free Run N Cycle F_{IN} N
Gate 1/2 Cycle F_{IN} N
Lock



HEWLETT
PACKARD 3314A
FUNCTION GENERATOR

LINE



STATUS

RMT
LTN
TLK
SRQ



Adrs



SEC
m V
k Hz
M DEG
%

MODIFY



RANGE



Hold

MODE

Free Run N Cycle $F_{in} \times N$
Gate 1/2 Cycle $F_{in} \div N$



Clr



Cal Off

Cal

TRIGGER

Trig



Trig I/O

0V

Ext

All Inputs $\pm 15V$ Max

ENTRY

0 1 2 3 4 5
Freq Amptd Offset Sym Phase N
1kHz .1Vp-p 0V 50% 0° Lin

SWEEP

Sw/Tr Start Stop Mkr Man Sweep
Intvl Freq Freq V Mkr Ins Del
 Δt V Hgt V Len

EXTERNAL MODULATION

Reduce FM/ AM FM VCO
VCO Input

FUNCTION

Sync Out

OPERATION OPEN

HEWLETT PACKARD 5372A
FREQUENCY AND TIME INTERVAL ANALYZER



RESULTS

Numeric

Graphic

Status

Print

Shift

Local

HP-IB STATUS

PMT LSN TLK SRQ

MENU SELECTION

Function

Input

Math

Pre-trigger

Instrument state

System

Test

Help

7

8

9

Last value

4

5

6

Back space

1

2

3

Exp

0

.

+/-

Enter

INSTRUMENT CONTROL

GATE

Restart

Single/Repet

SINGLE

ABORT

Manual arm

INSTRUMENT STATE

Save

Recall

DEFAULT

MC-88 SETUP

Preset

CURSOR/SCROLL



ENTRY/MARKER



100 MHz-2 GHz
500

DAMAGE LEVEL: +20 dBm

CHANNEL C



STANDBY

EXTERNAL ARM

CHANNEL A

CHANNEL B



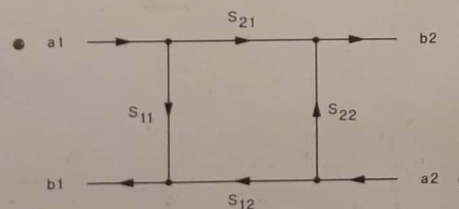


hp HEWLETT PACKARD 8720B 130 MHz - 20 GHz NETWORK ANALYZER

PORT 1

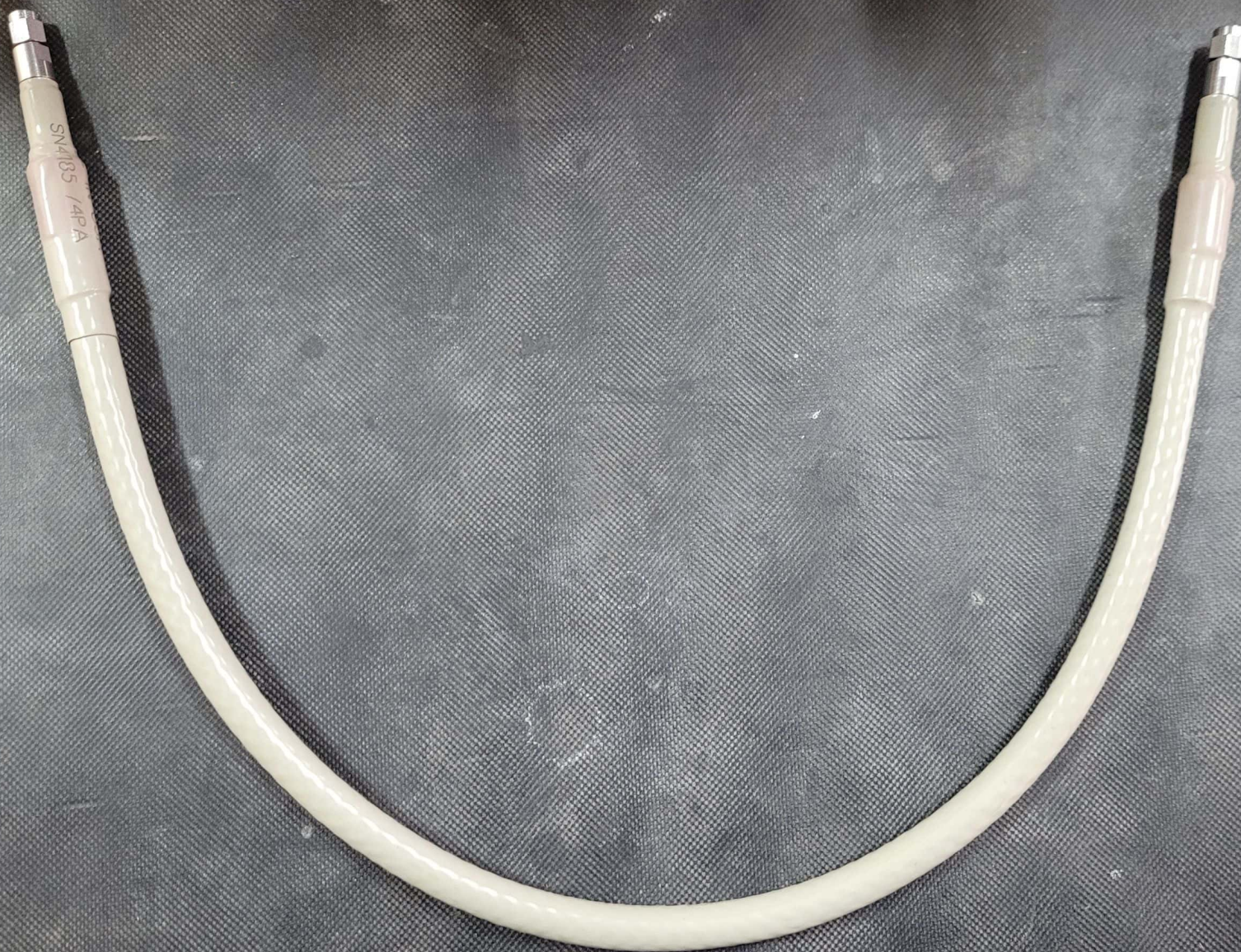
CAUTION
40 VDC MAX +20 dBm MAX
AVOID STATIC DISCHARGE

S-PARAMETER



PORT 2

CAUTION
40 VDC MAX +20 dBm MAX
AVOID STATIC DISCHARGE



BANDPASS FILTER
 $F_o = 10.24 \text{ GHz}$
HP. P/N 0955-0446

DELTA
MICROWAVE
CAMARILLO, CA