




SIGNAL GENERATOR 2022D 10 kHz – 1 GHz

(G) = GPIB

(K) = keyboard

CARRIER FREQUENCY



Press  if LED is not lit.

Enter frequency followed by  , 


or  e.g.

NOTE: If frequency is outside limits you will get max. or min. available.

  changes frequency standard.



SIGNAL LEVEL

Press  if LED is not lit.


Enter level followed by  ,  , 

or 


e.g.        

NOTE: Convert log-lin using  

   changes unit.

 turns level down to minimum.

AMPLITUDE MODULATION

Press  if LED is not lit.

Enter depth followed by 

e.g.      

NOTE: "LO" ← 0.9 V < EXT > → 1.1 V "HI"
MOD

FREQUENCY ON TRAIL MOD.

Press if LED is not lit or to change type of modulation.

Enter deviation followed by , ,

or .

e.g.

NOTE: Press for low noise.

INT. MOD. FREQ.

Press repeatedly for required frequency.

INCREMENTS



Press followed by , ,

or .

Enter step size followed by , ,

or .

e.g.

Now use and to change frequency.

NOTE: Hold keys for continuous steps.

displays total change.

goes to original setting.

STORE AND RECALL

Press or followed by TWO digits.

You can use , and on Recall.

00-19: full instrument settings,
20-99: carrier frequency only.

REVERSE POWER PROTECTION

Press to reset. 25 W max.

NOTE: If tripped, will only respond to this key.

SECOND FUNCTIONS



0

'Unlock'

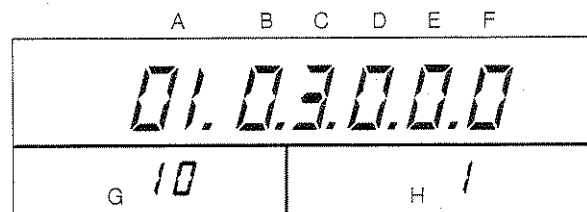


Unlocks instrument (see manual)



1

'Status'



- A GPIB address D Store lock G Ext. std. freq
- B Level offsets E Display blank H 2nd FUNCT.
- C Level units F Protect level



2

'GPIB Address'



If GPIB option present, enter TWO digits and press



3

'Latch Poke'



Enter latch address (see manual) followed by 6 or 8 bits of binary data.

Press to enter data into latch.



4

'SRQ Masking'



Shows which error numbers are masked when using GPIE

Press once to see 7-12 and again to see 13-18.



5

'Read Identity'



Shows instrument identification.

Press to view second 'page'.

2nd FUNCT **6** 'Test Display' (G) (K)

Causes all LCD segments to come on and then lights LEDs.

2nd FUNCT **9** 'Read Time' (G) (K)

Gives running total of switch-on time.

2nd FUNCT **1** **0** 'Ext. Std. Freq.' (G) (K)

Unlock to first level (see manual).

Enter **1** **5** or **1** **0** Press **STORE**

2nd FUNCT **1** **1** 'Read Identity' (G) (K)

Same as 5. 2018A compatible.

2nd FUNCT **1** **2** / **1** **3** 'User String' (G)

Read (13) or write (12) user string up to 32 ASCII characters.

2nd FUNCT **1** **4** 'RF Level Units' (G) (K)

Select and enter code. Press **STORE**

CODE	LOG	LIN	CODE	LOG	LIN
0	dBmV	e.m.f.	} e.m.f.	5	as 0
1	dB μ V	e.m.f.		6	as 1
2	dBmV	p.d.		7	as 2
3	dB μ V	p.d.		8	as 3
4	dBm			9	as 4

} p.d.

2nd FUNCT **1** **5** 'RF Level Offsets' (G) (K)

3 bands: <250, 250-500, >500 MHz.

Use increment keys to set power & **STORE**

2nd FUNCT **1** **6** 'Recall Store 10' (G) (K)

Store 10 may be recalled at switch-on.

Enter **1** and press **STORE** to enable this facility, **0** to disable.



MAJOR FUNCTIONS

CF Carrier frequency
 FM Frequency modulation
 AM Amplitude modulation
 PM Phase modulation
 LV RF level
 DE Delta

MISCELLANEOUS FUNCTIONS

ST Store } followed by a number
 RC Recall } between 00-99
 IS Internal frequency standard
 XS External frequency standard
 IM Internal modulation
 XM External modulation
 L0 Mod ALC off
 L1 Mod ALC on
 M0 Mod off
 M1 Mod on
 C0 Carrier off
 C1 Carrier on
 UP Increment up
 DN Increment down
 RT Return
 SF Second function
 RS Reset RPP
 QU Query

UNITS

MZ	MHz	VL	Volts
KZ	kHz	MV	mV
HZ	Hz	UV	μV
PC	%	DB	dB
RD	Radians		

01 Request outside limits
 02 Incorrect key sequence
 03 Too many digits
 04 Incorrect units
 05 RPP trip
 06 RAM check failure
 07 EAROM checksum error
 08 EPROM checksum failure
 09 Ext. mod. level too low
 10 Ext. mod. level too high
 11 Ext. std. level too low
 12 Ext. std. frequency error
 13 Latch write error
 14 EAROM write error
 15 EAROM recall error
 16 GPIB bus error
 17 Unrecognized GPIB characters
 18 Attempt to write to a protected store



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