



FUNCTION GENERATOR

GF-941

In addition to the advantages furnished by the range of frequencies covered, from 0.2 Hz to 20 MHz, the **GF-941** generator offers other benefits which provide extraordinary general possibilities for use.

It combines two generators in a single device which allows modulated signals to be obtained in AM or FM, frequency sweeps to be carried out and bursts to be sent from the main generator in the "burst" function.

It includes an output attenuator and offers the possibility of varying signal symmetry as well as adding a continuous current component to the latter and it is equipped with a digital frequency indicator.



SPECIFICATIONS	GF-941		
General Output signals Functions	Sine, triangular or square Variable symmetry AM - FM modulation Sweep Triggered "Burst"	FM modulation Peak to peak deviation Distortion Modulation bandwidth Internal External	0 to 10 % < 2 % (fc 10 MHz - fm 1 kHz, desviación 10 %) 0.01 Hz to 10 kHz DC to 50 kHz
Frequency Range Control Indicator Accuracy	0.2 Hz to 20 MHz in 8 decades Continuous in each decade x1 to x10 Digital, according to selected value 3 1/2 digits ± 3% of the reading ± 1 digit (0.2 Hz to 15 MHz)	Sweep Sweep width Sweep signal Asymmetry Sweep type Sweep frequency	100:1 in each decade Linear ramp 90% aproximadamente Repetitive 0.01 Hz to 10 kHz
Output Amplitude Impedancia de salida Amplitude control Attenuador Symmetry DC offset Control Polarity Sinel Amplitude response 10 Hz to 100 kHz 100 kHz to 20 MHz Distortion 10 Hz to 50 kHz 50 kHz to 13 MHz Triangular Linearity Square Rise time	20 Vpp at open circuit, 10 Vpp (50 Ω) up to 13 MHz 10 Vpp at open circuit, 5 Vpp (50 Ω) up to 20 MHz 50 Ω By continuous control and attenuador by steps Up to 63 dB, 3, 20 and 40 dB steps Continuous variation 20 % to 80 % (up to 1MHz) Continuous variation 0 to 10 V (open circuit) Selector ± (ref 1 kHz) ± 0.5 dB ± 2 dB - 42 dB (distortion) - 30 dBc (harmonics) ≤ 1 % (100 Hz) 22 ns (10 Vpp) / 18 ns (5 Vpp)	Triggered "Burst" Frequency Trigger Operating mode Trigger signal frequency Internal External External input level	0.2 Hz to 5 MHz Continuously variable from 90° to -80° Single or multiple period 0.01 Hz to 10 kHz (3 bands) Up to 1.5 MHz TTL
AM modulation Modulation index Bandwidth (carrier) Distortion Bandwidth (Modulated) Internal External External sensitivity	0 to 100 % 100 Hz to 5 MHz < 2 % (fc 1 MHz - fm 1 kHz, índice 70%) 0.01 Hz to 1 MHz DC to 1 MHz < 10 Vpp (100 %)	Ext. freq. control (VCO) Variation range Input amplitude Input impedance	100:1 in each decade 0 to -2 V aprox. 3 kΩ approx.
		Auxiliary generator Use Frequency range Signals Symmetry Output level Sine distortion Triangular linearity	AM, FM, modulation, sweep and burts 0.01 Hz to 10 kHz (3 bands) Sine, triangular and square Continuously variable 1.5 Vpp (10 kΩ) ≤ 2 % (10 Hz to 10 kHz) ≤ 1 % (100 Hz)
		Synchronism output Frequency Output signal Output level Output impedance Raise or fall time	From main generator Square 0.5 Vpp (50 Ω) 50 Ω 8 ns
		Power supply Mains voltage Consumption	110-125-220-230-240 V AC ±10% / 50-60 Hz 25 W
		Mechanical features Dimensions Weight	W. 288 x H. 116 x D. 260 mm 3.5 kg



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