The Hameg HM8131 is a high performance yet affordable 15MHz Synthesised Function Generator. This instrument uses direct digital synthesis to generate standard waveforms such as sine, square, ramp, triangle and noise, as well as arbitary signals with synthesised frequency ramp.

Specifications:

. Frequency

10 y	
Range:	0.0001Hz to 15MHz
Resolution :	0.0001Hz
Display:	12 digit LCD
Accuracy:	± (10ppm + 30µHz); standard
-	± (2ppm + 30µHz); TCXO
me.	

Waveforms: Sine

Sine	Freq. range; Amplitude; Harmonic dist.;	0.0001Hz to 15MHz 0 to 20Vpp Open circuit <0.1% (0.01Hz to 20kHz) <1% (20kHz to 3MHz) <3% (3MHz to 15MHz)		
Ramp	Freq. range; Amplitude; Rise/fall time; Aberration; Symmetry;	0.0001 to 15MHz 0 to 20Vpp Open circuit <10ns <5% (Vout > 200mV) 50% ±(5% + 10ns)		
Triangl	Freq. range; Amplitude; Linearity; Rise/fall time;	0.0001Hz to 100kHz 0 - 20Vpp Open circuit better than 1% typ. 45ns		
mang	Freq. range; Amplitude; Lineartity; Noise;	0.0001Hz to 1MHz 0 to 20Vpp Open circuit better than 1% White and pink noise		
Inputs Gate/tri	iqqer (BNC ia	ack)		
ΔМ	Impedance;	2Kohm// 100pf; protected up to ± 30V		
	Impedance; External Ref.;	1Kohm protected up to ± 30V 10MHz ±ppm; 1V rms; 500ohm		
Outputs				
Signal	O/P: Short co	ct. proof; ext. voltage up to max. ±15V		
	O/P Voltage;	2.1 to 20Vpp (OC)		
	C ·	0.21 to 2.0Vpp (OC)		
	Deschations	20 to 200mVpp(OC)		
	Accuracy:	$3\frac{1}{2}$ digit; 100/10/1mV +(1% + 5 digit)		
	Sweep (interna	I); all waveforms lin. or log.		
Amplitude Modulation:				
	Modulation;	via external signal		
	Nodulation dep	DC = 20kHz (-3dB)		
	Sensitivity(ext)	$\pm 1V$ rms sine wave for 100% at 1kHz		
	Burst;	via ext. trigger input		

Gate (asynchronous)	Mod control; on/off via ext. TTL signal
Trigger (synchronous)	Freq.range; same as signal
Trigger Output Leve	el; 5V/TTL (short circuit proof)
Ramp Output Leve	el; 0 to 5V (sweep out)
General	
Settings:	Remote controlled via interface or manual via front panel (keyboard or rotary control) 1 power-down set-up memory 10 set-up memories
	1 nonvolatile memory, 1 volatile memory
	RS232 Interface standard
	IEEE-488 Interface (Option HO88)