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Find the *Instek SFG-830* at our website: ***Click HERE***

30MHz Arbitrary Function Generator



FEATURES

* 30MHz Direct Digitally Synthesized Source
* 20mHz Frequency Resolution
* ±10ppm Frequency Accuracy
* 12 Bit, 5M Sample/S Arbitrary Waveforms
* Internally Synthesized FM , AM and Phase Modulation (PSK)
* Linear and log Sweeps
* Arbitrary Modulation
* Standard Interface : RS-232C
* IEEE-488 Interface (SFG-830G)

SFG-830/SFG-830G

SPECIFICATIONS

OUTPUT FUNCTION	SINE, TRIANGLE, RAMP, SQUARE, SYNC OUTPUT, ARBITRARY WAVE
FREQUENCY RANGE	
Sine	20mHz ~ 30MHz
Square	20mHz ~ 30MHz
Triangle	100mHz ~ 100kHz
Ramp	100mHz ~ 100kHz
FREQUENCY RESOLUTION	
Sine	20mHz
Square	20mHz
Triangle	10mHz
Ramp	10mHz
FREQUENCY ACCURACY	±10ppm
FREQUENCY AGING	±5ppm/year
OUTPUT IMPEDANCE	
Source Impedance	50Ω ±10%
AMPLITUDE	
Range	10mV ~ 10Vpp (into 50Ω) 8 amplitude range, |Vac peak|+|Vdc|≤ 5V
Resolution	3 digits
Accuracy	±0.5dB (±5mVrms)(sine out) ; ±12% (±5mVrms)(square out) ±5% (±5mVrms)(triangle out) ; ±5% (±5mVrms)(arbitrary out)
DC OFFSET	
Range	±5V (into 50Ω), | Vac peak |+| Vdc | ≤ 5V
Resolution	3 digits
Accuracy	± 1.5% of setting + 1mV
SYNC OUTPUT	
Sync Output	TTL levels
Sync Fan-Out	> 10 TTL load
SINE OUTPUT	
Harmonics	DC ~ 100kHz : -50dBc, 0.1M ~ 1MHz : -40dBc 1M ~ 10MHz : -30dBc,10M ~ 30MHz : -25dBc
SQUARE OUTPUT	
Rise/Fall Time	≤15nS
Overshoot	≤5% (at full scale output)
Asymmetry	±1% of period + 4nS
TRIANGLE AND RAMP	
Linearity	±0.1% of full scale output

ARBITRARY WAVEFORMS	
Sample Rate	42.949600MHz / N, N = 8, 10, 12.....2^{15}
Waveform Length	12000 points max
Vertical Resolution	12 bits
SWEEP	
Sweep Functions	LIN or LOG
Sweep Range	20mHz ~ 30MHz
Sweep Time	0.01S ~ 1000S
MODULATION	
AM Modulation Function	External,internal(sine,triangle,ramp,square)
Modulation Rate	10mHz~10kHz(internal)50kHz max(external)
Modulation Span	0 ~ 100%
Ext Input	±5V for 100% modulation
Ext Input Impedance	100kΩ
FM Modulation Function	Sine, triangle, ramp, square
Modulation Rate	10mHz ~ 10kHz
Modulation Span	30MHz (100kHz for triangle, ramp)
PM Modulation Span	360 Degrees
Modulation Rate	20mHz ~ 10kHz
INTERFACE	Standard : RS-232C Arbitrary waveform composer software (for windows) SFG-S1 GPIB Interface (SFG-830G)
POWER SOURCE	AC100V/120V/220V/240V ±10%, 50/60Hz
ACCESSORIES	Instruction Manual x 1, Power cord x 1, GTL-110 x 1
DIMENSIONS & WEIGHT	214(W) x 89(H) x 370(D) mm, Approx. 6.5kg

ORDERING INFORMATION

SFG-830	30MHz Arbitrary Function Generator with RS-232C Interface
SFG-830G	30MHz Arbitrary Function Generator with GPIB Interface

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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