FG300 series DDS Function Generators

digimess® concept

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The *digimess*® FG300 series are general purpose Direct Digital Synthesis (DDS) function generators with frequencies to 3MHz (FG303) and 8MHz (FG308). Frequency setting is by keypad entry or rotary control and the combination of soft touch buttons and rotary controls for the remaining features result in a modern and easy to use instrument. These versatile generators have a 6 digit frequency display for internal or external signals and a 4 digit output amplitude display. The comprehensive specification also includes an output on/off switch and a variable TTL/CMOS amplitude control. Further features include LED indicators for frequency, amplitude and attenuation ranges as well as the selected waveform shape.

Specification			
ERECHENOV		TTL amplitude	≥3Vpp
FREQUENCY		TTL fan out	20 TTL loads
Frequency range (FG303)	Sine 0.1Hz to 3MHz Square 0.1Hz to 2MHz Triangle 0.1Hz to 1MHz	CMOS amplitude	3.5 to 13.5Vpp
Frequency range (FG308)	Sine 0.1Hz to 8MHz Square 0.1Hz to 2MHz	DISPLAYS	
	Triangle 0.1Hz to 1MHz	Frequency readout	6 digit LED
Resolution	100mHz -6	External frequency range	10Hz to 60MHz
Stability	±1 x 10	External voltage range	0.2V to 20V
Error	±5 x 10	Error	±1 x 10
Accuracy	±20ppm	Voltage readout	4 digit LED
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Waveforms	Sine, Square, Triangle, TTL/ CMOS	Input voltage	220Vac ±10% 50Hz ±5%
Output level	20mV to 20Vpp (no load)	Weight	Approx 1.5kg
Attenuation	0dB, -40dB	Size W x H x D	265(W) x110(H) x340(D) mm
Output impedance	50Ω ±10%	Temperature	Operating 0°C to 40°C
DC offset	±10V (no load)	1.00	Storage -20°C to 70°C
Duty cycle	20% to 80%	Humidity	Up to 75%
WAVEFORMS		ORDERING INFORMATION	
Sine distortion	<0.6% 1kHz	HUC62-01 FG303 HUC62-02 FG308	3MHz function generator 8MHz function generator
Triangle linearity	≥98% 100mHz to 100kHz ≥95% 100kHz to 1MHz	Accessories supplied	Operators manual BNC test lead
Square rise and fall time	<30ns		Mains lead