

# Function Generator



## Features:

- Frequency range : 0.3Hz to 3MHz.
- Waveforms : Sine, triangle, square, ramp, TTL and CMOS output.
- External voltage controlled frequency (VCF) function.
- Duty cycle control with signal inversion capability.
- Variable DC offset control.
- Two-step (-20dBx2) and variable attenuator.
- Built-in 6 digit counter with INT/EXT function up to 150MHz/high resolution.

## Specifications

Main	Frequency range	0.3Hz to 3MHz (7 Range)
	Amplitude	>10Vpp (into 50 load)
	Impedance	50 $\pm$ 10%
	Attenuator	-20dB $\pm$ 1dB x 2
	DC offset	<-5V to >5V (into 50 load)
	Duty control	80% : 20% : 80% to 1MHz continue variable
	Display	6 digit LED display
	Range accuracy	$\pm$ 5% + 1Hz (at 3 position)
Sine wave	Distortion	$\leq$ 1%, 0.3Hz to 200kHz
	Flatness	<0.3dB: 0.3Hz to 300kHz; <0.5dB: 300kHz to 3MHz
Triangle wave	Linear	$\geq$ 98%: 0.3Hz to 100kHz; $\geq$ 95%: 100kHz to 3MHz
Square wave	Symmetry	$\pm$ 2%: 0.3Hz to 100kHz
	Rise or fall time	$\leq$ 100nS at maximum output (into 50 load)
CMOS output	Level	4Vpp $\pm$ 1Vpp to 14.5Vpp $\pm$ 0.5Vpp adjustable
	Rise or fall time	$\leq$ 120nS
TTL output	Level	$\geq$ 3Vpp
	Fan out	20 TTL load
	Rise or fall time	$\leq$ 25nS
VCF	Input voltage	0V to 10V $\pm$ 1V (100 : 1)
	Input impedance	10k $\pm$ 10%
Frequency counter	INT./EXT.	Switch selector
	Range	0.3Hz to 3MHz (5Hz to 150MHz EXT.)
	Accuracy	Time base accuracy $\pm$ 1 count
	Time Base	$\pm$ 20ppm (23°C $\pm$ 5°C) after 30 minutes warm up
	Resolution	The maximum resolution is 10nHz for 1Hz and 0.1Hz for 100MHz
	Input impedance	1M//150pF
	Sensitivity	$\leq$ 35mV rms (5Hz to 100MHz); $\leq$ 45m V rms (100MHz to 150MHz)
Power source		115/230V ac $\pm$ 15%, 50/60Hz
Accessories		Power cord x 1, instruction manual x 1, GTL-101 x 2
Dimensions		(W) 251 x (H) 91 x (D) 291mm

# Function Generator



## Part Number Table

Description	Part Number
Function Generator	72-7710

**Disclaimer** This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. TENMA is the registered trademark of the Group. © Premier Farnell plc 2009.

<http://www.farnell.com>  
<http://www.newark.com>  
<http://www.cpc.co.uk>

