

2MHz function generator

- ▶ 0.02Hz to 2MHz frequency range
- Very high waveform quality at all frequencies & levels
- 20mV to 20V pk-pk from 50 Ω or 600 Ω
- Auxiliary TTL/CMOS output
- Variable symmetry with constant frequency
- ▶ Variable DC offset with zero detent
- ▶ 1000:1 frequency change by vernier or sweep voltage

TG210 - 2MHz function generator

A basic generator of high performance

The TG210 is a basic 2MHz function generator which offers very high waveform quality at all frequencies and levels. Frequency is set using a calibrated vernier knob.

The feature set includes variable symmetry and variable dc offset with centre detent.

Output impedances of 50Ω and 600Ω are supported via separate output sockets.

Main Features

- 0.02Hz to 2MHz frequency range
- High waveform quality at all frequencies & levels
- ▶ 20mV to 20V pk-pk from 50 Ω or 600 Ω
- Auxiliary TTL/CMOS output
- Variable symmetry with constant frequency
- Variable DC offset with zero detent
- 1000:1 frequency change by vernier or sweep voltage

Part of an extensive range

We offer a wide choice of function generators both analogue and digital, from this basic 2MHz model up to a highly sophisticated 40MHz unit.

Users requiring an analogue function generator with digital readout and a wider feature set should request information on the TG300 series of 3MHz generators.

Technical Specifications

FREQUENCY

Frequency Range:	0.02Hz to 2MHz in 7 overlapping decade ranges with fine adjustment by a vernier.	
Vernier Range: Vernier Accuracy:	1000:1 on each range. Typically ±5% of full scale.	

OPERATING MODES

Specifications apply for the top decade of each frequency range and maximum output into 50Ω termination.

SINF Distortion: <0.5% on 200, 2k and 20k ranges; <1% on 2, 20 and 200k ranges; all harmonics >25dB below fundamental on 2M range. Amplitude Flatness: ±0.2dB to 200kHz; ±1dB to 2MHz. TRIANGLE Better than 99% to 200kHz Linearity: SQUARE WAVE **Rise/Fall Times:** <100ns Mark - Space Ratio: 1:1 ± 1% to 100kHz DC Range: ±10V unterminated SYMMETRY Variable typically 1:9 to 9:1 (on top decade of each Symmetry Range: range), frequency divided by 10.

OUTPUTS MAIN - 50 Ohm 20mV to 20V peak-peak open circuit (10mV to 10V Amplitide peak-peak into 50Ω) in two switch selectable ranges with 40dB vernier control within each range DC Offset Range: $\pm 10V$ from 50 Ω . DC offset plus signal peak limited to ±10V (±5V into 50Ω). DC offset plus waveform attenuated proportionally by the attenuator. MAIN - 600 Ohm Alternative output socket offering the same facilities as the 50 Ω socket. AUX OUT 0 to 5V TTL/CMOS logic levels capable of driving 2 standard TTL loads. Frequency, symmetry and phase as main outputs SWEEP (EXTERNAL)

Input Impedance:	10kΩ
Input Sensitivity:	0 to 3V for 1000:1 sweep
Max. Input Voltage:	±10V
Sweep Linearity:	Better than 1%
Max. Slew Rate:	0.1V/us

GENERAL

CASING

CASING			
Moulded ABS case with tilt stand.			
POWER REQUIREMENTS			
Input Voltage:	220 to 240 volts AC nominal 50/60Hz or 110 to 120 volts AC nominal 50/60Hz by rear panel adjustment. Installation category II.		
Power Consumption:	25VA max.		
TEMPERATURE & ENVIRONMENTAL			
Operating Temp			
Range:	+5°C to +40°C, 20% to 80% RH.		
Storage Temp.			
Range:	-10°C to +65°C		
Environmental:	Indoor use at altitudes up to 2000m. Pollution degree 2.		
SIZE	260(W) x 88(H) x 235(D)mm (10.2 x 3.4 x 9.2"), excluding tilt stand and feet.		
WEIGHT	1.9kg (4.2lb)		
SAFETY	Complies with EN61010-1.		
EMC	Complies with EN61326.		