

VICTOR 2002A/2005/2642E Multi Function Generator Series



Ramark:
(1)The function of item (1) cannot be applied to model VC2002A.

(2)The function of item (2) only can be applied to model VC2005.

(3)The function of item (3) only can be applied to model VC2642E.

- The variety of signal waveform generator, output frequency ranges consist of seven decade stages, including 0.5Hz~5MHz
- With a sine wave, triangle wave, rectangular wave and its modulation waveform output
- Symmetry(Duty Cycle), DC Offset can be adjusted independently.
- Voltage output range(no load): 0.2Vp-p ~ 20 Vp-p
3 output attenuation: -20dB, -40dB and -60dB
- Synchronous CMOS(TTL-compatible) level outputs independently
The peak voltage: 3.6V ~ 15V, independently successive adjustment
- VFD display, frequency 6 shows, all functional instructions are available
- External Voltage controlled Frequency(VCF), the external voltage-controlled rate 1:100 (1)
- External Frequency Measurement function
Frequency Range: 1Hz ~ 100MHz
Auto-gate time, equally accurate measurement, 6 digits display resolution (1)
- Frequency Sweep function
Including logarithmic and linear scanning mode, sweep time and sweep width adjustable independently. (2)
- Modulation function
With the modulated signal source of internal built-in or external input to generate Amplitude Modulation(AM) or Frequency Modulation(FM) signal (2)
- High-current Power Output function
Supplied with output power that is greater than 5W within the 200kHz (3)
- Multi-protection function
The output port overpressure, over-current, power amplifier overheating protection, accompanying a sound and light alarm instructions
- Time base Panel calibration technology, it can be calibrated without opening the chassis
- 220V/110V Power Conversion
- External fuse convenient for replacement.
- Simple man-machine operation, sturdy and surable, suitable for laboratories, schools, factories to use



VICTOR 8245

- 4 1/2 high performance and automatic range switching Bench-type DMM .
- Data storage : 1024 .
- USB interface can connect to computer .
- Clock display (year ,month ,day and time).
- Square wave output.
- Vacuum screen (VFD display).
- Basic accuracy : $\pm 0.05\%$

Technical data

Basic function	VICTOR 2002A	VICTOR 2005	VICTOR 2642E
Frequency range	7 Range : 0.5Hz~5Hz, 5Hz~50Hz, 50Hz~500Hz, 500Hz~5kHz, 5kHz~50kHz, 50kHz~500kHz, 500kHz~5MHz		
Basic Output Waveform	Sine Wave / Triangle wave / rectangular wave		
Output Amplitude	10Vp-p (into 50Ω load) 20Vp-p (into 1MΩ load)		
Output Impedance	50Ω ±10%		
Output Attenuator	-20dB, -40dB, -60dB		
Duty Offset	-5V ~ +5V (into 50Ω load) -10V ~ +10V (into 1MΩ load)		
Duty adjustment range	20% ~ 80%		
CMOS Output	3.6Vp-p ~ 15Vp-p, tr≤50ns		
Frequency Measurement Accuracy	±20ppm (23±5℃)		
Frequency Output Stability	Frequency drift less than 0.5% of the center value within 15 minutes. (after 30 minutes warm up)		
Wavefor-m Features	Sine Wave	Distortion ≤1% (1KHz)	
	Triangle Wave	Linear >98% (0.1Hz~100KHz) Linear >95% (>100KHz)	
	Rectangul-ar Wave	Rise or Fall Time ≤50ns	
	Range	1Hz ~ 100MHz, 6 digits display	
External Frequency Measurement Features	Accuracy	±20ppm (23±5℃)	
	Input Impedance	1MΩ/150pF	
	Sensitivity	>50mVrms	
	VCF Features	Input voltage: 0 ~ 10V, Input Impedance: 10kΩ	
Sweep function	Sweep Width	100:1 ratiomax. and adjustable	
	Sweep Time	0.5s ~ 30s	
	Sweep Mode	Lin. / Log.	
AmplitudeModulat-ion	Depth	0~100%	
	MOD. Freq	400Hz (INT)	
	EXT Sensitivity	10Vp-p for 100% modulation	
FrequencyModulat-ion	Deviation	0 ~ 5kHz	
	MOD. Frequency	400Hz (INT)	
	EXT Sensitivity	10Vp-p (deviation 5kHz)	
Power Output	Output Amplitude	no load 20Vp-p (output of the set voltage)	
	Output Power	>5W (into 8Ω load)	
	Output Width	0.5Hz ~ 200KHz	

Technical data

Basic Function	Range	Basic accuracy	Min. Resolution
DC Voltage	220mV/2.2V/22V/220V/1000V	±(0.05%+3)	10μV
AC Voltage	220mV/2.2V/22V/220V/750V	±(0.8%+80)	10μV
DC Current	220μA/2.2mA/22mA/220mA/10A	±(0.35%+10)	0.01μA
AC Current	220μA/2.2mA/22mA/220mA/10A	±(0.8%+80)	0.01μA
Resistance	220Ω/2.2kΩ/22kΩ/220kΩ/2.2MΩ/22MΩ	±(0.8%+80)	0.01Ω
Capacitance	22nF/220nF/2.2μF/22μF/220μF/2.2mF/22mF/220mF	±(3.5%+15)	1pF
Frequency	22.00Hz/220.00Hz/22.000kHz/220.00kHz/2.2000MHz/22.00MHz	±(0.20%+10)	0.01Hz
Duty cycle measurement	5.0%~94.9%		
Square wave output	620Hz~9.75kHz, output amplitude:3V		
AC Ture RMS measurement frequency response	50Hz-1kHz		
Input impedance	10MΩ		
Display way	VFD display		
Max. Display	22000(4 1/2) digit automatic polarity and unit display		
Switching rate	2 times/sec.		
Over range display	"OL"		
Operating way	Automatic measurement		
Clock display	Year/month/day/time		
Data storage and reading	1024		
200mA/10A fuse	✓		
Diode continuity test	✓		
RS232 serial data output	✓		
Power	220V~240V		
Dimension	310×230×120mm		