GDS-122 (20MHz)

CE USB DMM PC Software

FEATURES

* 20 MHz Bandwidth
* 100 MS/s Real-Time Sampling Rate
* Digital Storage Oscilloscope & Multimeter
* True RMS Multimeter Volts, Amps, Ohms, Continuity, Diode
* Dual Independent Floating Isolated Channels (for Multimeter and Between Oscilloscope and Multimeter)
* Trigger Mode : Free Run, Single Shot, Edge, Video
* USB Interface
* 6 Hour Capacity Li-ion Rechargeable Battery
* 3.8" Color LCD, Resolution: 320 × 240
* Light Weight at 690g

PACKAGE CONTENTS

Extension module for large current measurement

Oscilloscope probe

Extension module for small capacitance measurement

Multimeter test lead

Soft carrying case

AC-DC adaptor

1kHz square wave output cable

USB communication cable

CD-ROM(Software), User manual

The GDS-122 is a reliable and handy instrument for all test and electronic engineers. This model is designed to carry out complicated on-site tests. The Dual-channel unit provides 20MHz of bandwidth with a sampling rate of 100MS/s with additional DMM functionality. The color LCD display with a 320 x 240 resolution helps you to read waveforms easily, especially when displaying a lot of data or multiple waveforms. The compact design with a total weight of 690g allows engineers to carry it around easily. The unit's protective cover is insulated and specially designed to endure tough environments. A rechargeable Li-ion battery ensures convenience for on-site testing.

SPECIFICATIONS

VERTICAL	
Analog Digital Converter Resolution	8 bits simultaneously sampling on both channels
Sensitivity	5mV/div 5V/div at the input BNC
Displacement Range	±50V (500mV ~ 5V), ±1V(5mV ~ 200mV)
Analog Bandwidth	20MHz
Single Bandwidth	Full bandwidth
Low Frequency Response AD Coupling,-3dB	±5Hz at the BNC input
Rise Time	17.5ns (typical)
DC Gain Accuracy	±5%
DC Measurement Accuracy	±(5% reading + 0.05 div), at the Average sampling mode (> 16)
TRIGGER	
Trigger Sensitivity Edge Triggering	DC coupling : 1div (full bandwidth) AC coupling : Same as the DC coupling ≥ 50Hz
Trigger Level	±6 divs from the screen center
Trigger Level Accuracy	±0.3 divs (typical)
Trigger Displacement	655 divs (pre-trigger), 4 divs (post-trigger)
50% Level Setting	Input signal frequency ≥50Hz
Trigger Sensitivity	2 divs of peak-to-peak value
Video Trigger	Supports NTSC, PAL and SECAM, any or line frequency
HORIZONTAL	
Sampling Rate Range	10S/s~100MS/s
Waveform Interpolation	sin x / x
Record Length	6K points on each channel
Scanning Speed Range S/div	5ns/div 5s/div, stepping in the "1-2.5-5" mode.
Sampling Rate and Relay Time Accuracy	±100ppm(any time interval which is equal to or larger than 1ms)
Time Interval	Single: ±(1 sampling interval time+100ppm×reading+0.6ns)
(T)Measurement Accuracy Full Bandwidth	>average 16 : ±(1 sampling interval time +100ppm×reading+0.4ns)
INPUT	
Input Coupling	DC, AC
Input Impedance	1MΩ±2% connected in parallel with 20pF±3pF
Probe Attenuation Coefficient	1X, 10X, 100X, 1000X
Max. Input Voltage	400V (peak)
Channel Delay Time (Typical)	150ps
SAMPLING	
Sampling Modes	Normal sampling Peak detection Average value
Sampling Rate	100 MSa/s
MEASUREMENT	
Cursor Measurement	Voltage difference (V) and time difference (T) between cursors
Auto Measurement	Peak-to-peak value,average value,root mean square value,frequency and cycle
MULTIMETER SPECIFICATIONS	
Input Impedance	10MΩ
Voltage	VDC: 400mV, 4V, 400V ±(1% +1 digit)
Max Input	DC 400V
VAC	4V, 40V, 400V ±(1% +3 digit)
Frequency	40Hz ~ 400Hz
Max Input	AC 400V (Virtual value)
Current	DCA : 40mA, 400mA ±(1.5% +1 digit); 20A: ±(3% +3 digit) DAA : 40mA ±(1.5% +3 digit), 400mA ±(2% +1 digit); 20A: ±(5% +3 digit)
Impedance	400Ω ±(1%+3 digit), 4KΩ, 40KΩ, 400KΩ, 4MΩ ±(1%+1 digit), 40MΩ ±(1.5%+3 digit)
Capacitance	51.2nF ~ 100uF ±(3%+3 digit)
Diode	0V ~ 1.5V On/Off measurement < 50 (±30) beeping
GENERAL SPECIFICATIONS	
Display	Display type : 3.8" color liquid crystal display Display resolution : 320 (horizontal) x 240 (vertical) pixels Display color : 4096 colors
Power Adapter	Power supply : 100-240 VACRMS, 50Hz, CAT II ; Power consumption : < 6W
Operating Temperature	Used battery : 0~50 °C (32~122 °F);Power adapter : 0~40 °C (32~104 °F)

ORDERING INFORMATION

GDS-122 Handheld Digital Storage Oscilloscope & Multimeter

ACCESSORIES :

User manual, AC-DC Adaptor, Probe-T5060:60MHz(10:1/1:1)Switchabel Passive Probe (one per channel)
Multimeter test lead, Serial data communication cable,
Extension module for small capacitance measurement, Extension module for large current measurement

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PC Software