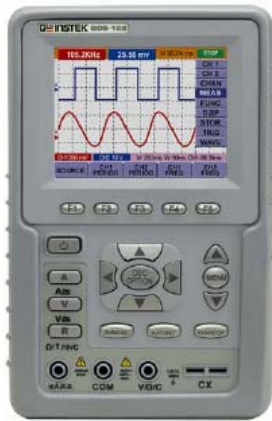


# Handheld Digital Oscilloscopes

**GW INSTEK**

## GDS-122

- Dual Channel.
- 20MHz Bandwidth.
- 100MS/s Real-Time Sampling Rate.
- 6k Pts Memory.
- Waveform Math Functions.
- Autoset Function.



AVAILABLE  
TO BUY ONLINE

### OSCILLOSCOPE

		GDS-122														
<b>Vertical</b>	Channels Bandwidth A/D Converter Sensitivity Displacement Low Frequency Rise Time DC Accuracy DC Accuracy (avg) Waveform Signal Process	2 DC ~20MHz (-3dB) 8 Bits Resolution 5mV/div ~ 5V/div (at Input) ±50V (500mV ~ 5V), ±1V (5mV ~ 200mV) ≥5Hz (at Input, AD Coupling, -3dB) ≤17.5ns (at Input, Typical) ±5% (DC Gain) Avg > 16: ± (5% rdg + 0.05 div) for ΔV +, -, *, /														
<b>Trigger</b>	Sensitivity Trigger Level Level Accuracy Displacement 50% Level Setting Trigger Sensitivity	Ch 1 and Ch 2: 1div (DC ~ Full Bandwidth) DC Coupling: ≥50Hz ±6 Divisions from the Screen Centre ±0.3 Div (Typical, Rise/Fall Time ≥ 20ns) 655 Div (Pre-Trigger), 4 Div (Post-Trigger) Input Signal Frequency ≥ 50Hz (Typical) 2 Div of Peak-to-Peak (Video Trigger)														
<b>Horizontal</b>	Sampling Rate Sampling Modes Interpolation Record Length Scanning Speed Sampling Rate/Relay Time Accuracy Interval (ΔT) Accuracy (Full Bandwidth)	10S/s ~ 100MS/s Normal, Peak Detection, Average (sin x) / x 6K Points on Each Channel 5ns/div ~ 5s/div, 1-2.5-5 Step ±100ppm (Time Interval ≥1ms) Single: ± (1 Interval Time + 100ppm x Reading + 0.6ns) Average > 16 : ± (1 Interval Time + 100ppm x Reading + 0.4ns)														
<b>Input</b>	Coupling Impedance Probe Max. Input Channel Delay	DC, AC 1MΩ ± 2% in Parallel with 20pF ± 3pF 1X, 10X, 100X, 1000X 400V (Peak) 150ps (Typical)														
<b>Measurement</b>	Cursor Automatic	ΔV and ΔT Between Cursors Peak-to-Peak, Average, Root Mean Square, Frequency & Cycle														
<b>Probe</b>	Bandwidth Attenuation Rate Compensation Input Impedance Input Impedence Input Voltage	<table border="0"> <tr> <td><b>1X POSITION</b></td> <td><b>10X POSITION</b></td> </tr> <tr> <td>≤6MHz (DC)</td> <td>Full Bandwidth (DC)</td> </tr> <tr> <td>1:1</td> <td>10:1</td> </tr> <tr> <td>10pf ~ 35pf</td> <td>10pf ~ 35pf</td> </tr> <tr> <td>1MΩ ± 2%</td> <td>10MΩ ± 2%</td> </tr> <tr> <td>85pf ~ 115pf</td> <td>14.5pf ~ 17.5pf</td> </tr> <tr> <td>150V DC</td> <td>300V DC</td> </tr> </table>	<b>1X POSITION</b>	<b>10X POSITION</b>	≤6MHz (DC)	Full Bandwidth (DC)	1:1	10:1	10pf ~ 35pf	10pf ~ 35pf	1MΩ ± 2%	10MΩ ± 2%	85pf ~ 115pf	14.5pf ~ 17.5pf	150V DC	300V DC
<b>1X POSITION</b>	<b>10X POSITION</b>															
≤6MHz (DC)	Full Bandwidth (DC)															
1:1	10:1															
10pf ~ 35pf	10pf ~ 35pf															
1MΩ ± 2%	10MΩ ± 2%															
85pf ~ 115pf	14.5pf ~ 17.5pf															
150V DC	300V DC															

MULTIMETER		GDS-122
<b>VDC</b>	Input Impedance Max. Input Accuracy Resolution	10MΩ 1000V (DC or AC Peak-to-Peak Value) ± 1% ± 1 Digit 400mV Range: 100µV 4V Range: 1mV 40V Range: 10mV 400V Range: 100mV
<b>VAC</b>	Input Impedance Max. Input Frequency Range Display Accuracy Resolution	10MΩ 750V (AC, Virtual Value) 40Hz ~ 400Hz Virtual Value of Sine Wave ± 1% ± 3 Digits 4V Range: 1mV 40V Range: 10mV 400V Range: 100mV
<b>DCA</b>	Accuracy  Resolution	40mA Range: ± 1% ± 1 Digit 400mA Range: ± 1.5% ± 1 Digit 20A Range: ± 3% ± 3 Digits 400mA Range: 10µA 400mA Range: 100µA 20A Range: 10mA
<b>ACA</b>	Accuracy  Resolution	40mA Range: ± 1.5% ± 3 Digits 400mA Range: ± 2% ± 1 Digit 20A Range: ± 5% ± 3 Digits 40mA Range: 10µA 400mA Range: 100µA 20A Range: 10mA
<b>Resistance</b>	Accuracy  Resolution	400Ω Range: ± 1% ± 3 Digits 4kΩ~4MΩ Range: ± 1% ± 1 Digit 40MΩ Range: ± 1.5% ± 1 Digit 400Ω Range: 0.1Ω 4kΩ Range: 1Ω 40kΩ Range: 10Ω 400kΩ Range: 100Ω 4MΩ Range: 1kΩ 40MΩ Range: 10kΩ
<b>Capacitance</b>	Accuracy Resolution	± 3% ± 3 Digits 51.2nF Range: 10pF 512nF Range: 100pF 5.12µF Range: 1nF 51.2µF Range: 10nF 100µF Range: 100nF
<b>Diode</b>	Reading Range	0V ~ 1.5V On/Off Measurement < 50 (±30) Beeping
<b>Continuity</b>	Threshold	< 30Ω
<b>GENERAL Display</b>	Type Resolution Colour	3.8" Colour Liquid Crystal Display 320 (H) x 240 (V) Pixels 4096 Colours
<b>Power</b>	Consumption Supply DC Input Battery	<6W 100V ~ 240V AC, 50/60Hz 8.5VDC, 1500mA Li-ion Battery: 6 hours running time when new
<b>Mechanical</b>	Dimensions Weight	180mm x 115mm x 40mm 690g
<b>Accessories</b>		Instruction Manual x 1 Oscilloscope Probe x 2 Multimeter Test Lead x 2 AC ~ DC Adaptor Probe Adjustment Tool Soft Carrying Case Extension Module for Large Current Measurement Extension Module for Small Capacitance Measurement USB Communication Cable, CD-Rom (PC Software) 1kHz Square Wave Cable