

Differential Probe

GDP-040D for GDS-200 & GDS-300 Series



QUICK START GUIDE

GW INSTEK PART NO. 82DP-040D0MA1



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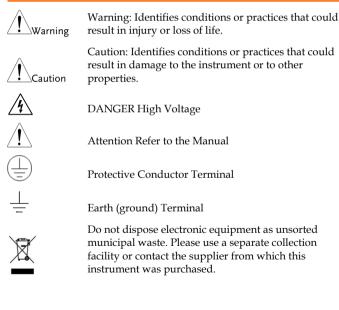
The information in this manual was correct at the time of printing. However, Good Will continues to improve its products and therefore reserves the right to change the specifications, equipment, and maintenance procedures at any time without notice.

SAFETY INSTRUCTIONS

This section contains the basic safety symbols that may appear on the accompanying Quick Start Guide or on the instrument.

Safety Symbols

These safety symbols may appear in the user manual or on the instrument.



GETTING STARTED

The Getting started chapter introduces the main features, appearance, and set up procedure.

Main Features

 DC~40MHz bandwidth x200 attenuation. Dual channel Locked attachment for GDS-200/300 Integrated test leads 	Features	x200 attenuation.Dual channelLocked attachment for GDS-200/300
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Package Contents and Accessories

Standard Accessories

Item	Part Number
Quick Start Guide	
Differential Probe	GDP-040D
Test Lead	GTL-131 x2

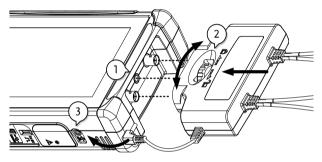
Overview

Front Panel

Test leads					
Lock wheel					
CH1 input CH2 input					
ltem	Description				
CH1	CH1 output. 600V CAT II				
CH2	CH2 output. 600V CAT II				
CH1 Input	CH1 input from the GDS-200/300 CH1 terminal.				
CH2 Input	CH2 input from the GDS-200/300 CH2 terminal.				
Lock wheel	Used to fix the differential probe to the GDS-200/300.				
DC Input	DC5V, 150mA				

Connection

- Connect the CH1 and CH2 inputs to the gds-200/300 channel inputs. Make sure the face of the differential probe is top-side up, as shown below.
- 2. Turn the lock wheel to the left to fix the probe to the scope.
- Connect the DC input to the external power port on the GDS-200/300.



GDS-200/300 Setup

To use the differential probe on the GDS-200/300, simply set the probe attenuation to X200.

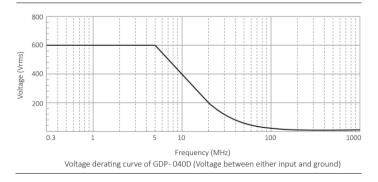
- 1. Press the $2 = 100 \text{ mV even} \frac{8}{100 \text{ mV even}}$ vertical icon.
- 2. Select 1 CH1.
- 3. Press the **E** Option button.
- 4. Press Probe and set the probe to x200.
- 5. Repeat the procedure for CH2.

Specifications

The specifications apply when the oscilloscope is powered on for at least 30 minutes under $+20^{\circ}C^{+}30^{\circ}C$.

Channels	2 channels	
Bandwidth (-3dB)	DC-40MHz (x200)	
Attenuation	x200	
Accuracy	± 2%	
Voltage Input Range	600Vrms for x200	
Input Impedance	Differential: $2M\Omega//1.2pF$	
	Between terminal and GND : $1M\Omega//2.4pF$	
Output	≤±3V	
Output Impedance	50Ω	
Rise Time	8.75ns for x200	
CMRR	80dB at 60Hz, 60dB at 100Hz, 50dB at 1MHz	
Power Supply	5V DC from GDS-200	
Dimensions	81.7(H) x 123.0(W) x 28.0(D) (unit:mm)	





EC Declaration of Conformity

GDP-040D

Is herewith confirmed to comply with the requirements set out in the Council Directive on the Approximation of the Law of Member States relating to Electromagnetic Compatibility (2004/108/EC) and Low Voltage Equipment Directive (2006/95/EC). For the evaluation regarding the Electromagnetic Compatibility and Low Voltage Equipment Directive, the following standards were applied:

© EMC

EN 61326-1 : EN 61326-2-1: EN 61326-2-2:

Electrical equipment for meas requirements (2013)	Electrical equipment for measurement, control and laboratory use — EMC requirements (2013)		
Conducted and Radiated Emissions EN 55011: 2009+A1: 2010	Electrostatic Discharge EN 61000-4-2: 2009		
Current Harmonic EN 61000-3-2: 2006+A1: 2009+A2: 2009	Radiated Immunity EN 61000-4-3: 2006+A1: 2008+A2: 2010		
Voltage Fluctuation EN 61000-3-3: 2013	Electrical Fast Transients EN 61000-4-4: 2012		
	Surge Immunity EN 61000-4-5: 2006		
	Conducted Susceptibility EN 61000-4-6: 2009		
	Power Frequency Magnetic Field EN 61000-4-8: 2010		
	Voltage Dips/Interrupts EN 61000-4-11: 2004		

Safety

Low Voltage Equipment Directive 2006/95/EC

Safety Requirements EN 61010-2-031+A1: 2008