DVM App

GDS 2000A Series

USER MANUAL

GW INSTEK PART NO.

ISO-9001 CERTIFIED MANUFACTURER

GW INSTEK

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INSTALL THE SOFTWARE

Steps

1. Please make sure that the firmware version is V1.14 or above.
2. Copy the installation file, DVM.gz, onto a USB flash drive.
3. Please insert the USB flash drive into one of the USB A ports.
4. Enter the file utilities menu (Utility key ➔ File Utilities).
5. Use the Variable knob and the select key to navigate to the DVM.gz file on the USB flash drive. See Fig. 1.

Fig.1

6. Press the Select key to select the file. A message will appear asking you to make sure the system date is correct before you proceed. Press the Select key to confirm and to start the installation process. See Fig. 2.

7. The installation will proceed automatically. When the following message appears, "Please turn-off the oscilloscope and turn-on again!", cycle the power on the scope and remove the USB flash drive.

8. The DVM APP should now be installed.

Fig.2

UNINSTALL THE SOFTWARE

Steps

1. Enter the APP menu. (Test key ➔ APP)
2. Use the Variable knob to select the DVM driver file. Fig.3.
3. Press the Uninstall soft-key twice to uninstall. The uninstallation process will commence automatically.
4. Cycle the power on the oscilloscope when the message, "Please turn-off the oscilloscope and turn-on again!" appears on the screen.

Fig. 3

HOW TO USE THE SOFTWARE

Introduction

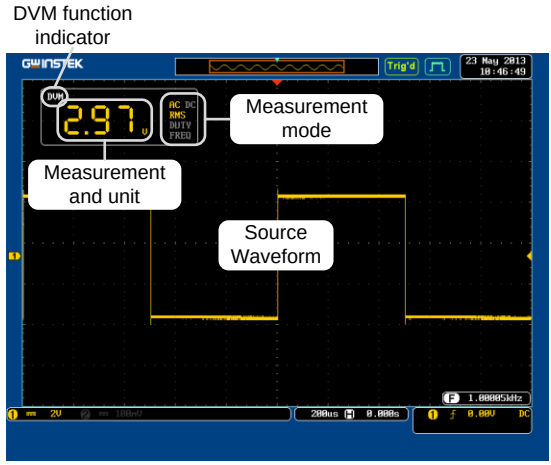
The DVM APP. allows you to measure the AC RMS, DC, DC RMS, Duty and frequency of an input signal. This software is especially useful for those measurement applications that require both a DSO and a basic DVM to be used at the same time.

Basic Features:

- 300V input (peak AC + DC) CAT 1
- 3 digit resolution for voltage measurements
- 5 digit resolution for frequency
- Input channel selection

Note: This application is a basic application and lacks some of the functionality, accuracy and resolution of a true digital DVM.

Panel Overview



Steps

1. Enter the DVM menu. (Option key ➔ DVM).

   Note: If you don't have the option to select the DVM soft-key, it means that you did not exit from a different optional function. Press the Go Back soft-key (Option key ➔ Go Back) to exit back to the Option menu, where you can now select the DVM option.

2. In the DVM menu, press the DVM soft-key to toggle the DVM function on.

3. Press the Source key to select the input source.

   Source: CH1, CH2, CH3*, CH4*
   *4 channel models only.

4. Press Mode and choose the measurement mode:

   Mode: AC RMS, DC, DC RMS, Duty, Frequency.

5. The measurement results will be shown in real-time in the top left-hand side of the display. Fig. 6

   Note that if "Cursors"are turned on, the DVM display will be disabled. To see the DVM display you must first disable the on-screen cursor measurements (press the Cursor key until the on-screen cursors are turned off).

5. The DVM application will remain running even if other functions are performed, until it is turned off. To turn the DVM APP off, press the DVM soft-key again when in the DVM menu. (Option key ➔ DVM ➔ DVM [toggle to OFF])

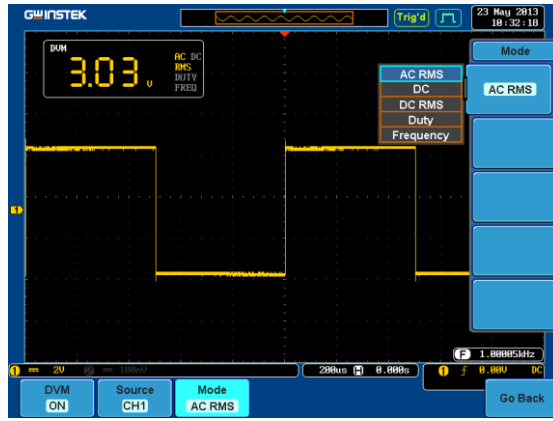



Fig. 6