

# Digital Voltmeter App

DSO-1000D Series

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## USER MANUAL



ISO-9001 CERTIFIED MANUFACTURER

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# GETTING STARTED

## App Overview

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Background	The DSO-1000D comes pre-installed with a number of apps. Optional apps can also be downloaded from the Conrad website free of charge at <a href="http://www.conrad.de">www.conrad.de</a>	
Included Applications	Go/No-Go	The Go/No-Go application can be used to set threshold boundaries for input signals. Go/No-Go tests to see if a waveform will fit inside a user-specified maximum and minimum amplitude boundary (template).
	Mount Remote Disk	This app allows the scope to mount a network share drive.
Optional Applications	Digital Filter	Adds a digital low or high pass filter to any of the input channels. Each filter can have a user-defined cutoff frequency set.
	DVM	The DVM application displays a digital voltage meter readout that floats on the top left-hand side of the screen.

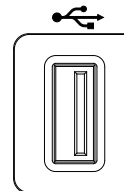
Data Log	The Data Log app will log waveform data and/or screenshots at set intervals for set duration of time.
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## Installing Optional Apps

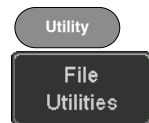
Background	The DSO-1000D has optional software apps that can be installed to add additional functionality to the DSO.
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|-------|--|
| Steps | <ol style="list-style-type: none"> <li>1. Download the DVM App zip file from the Conrad website.</li> <li>2. Unzip the DVM App zip file.</li> </ol> <p>The App zip file contains the APP installation file (DVM_1KB.gz) and this user manual.</p> <ol style="list-style-type: none"> <li>3. Copy the installation file (DVM_1KB.gz) onto a USB flash drive.</li> </ol> |
|-------|--|

4. Insert the USB flash drive that contains the DVM\_1KB.gz file into the front panel USB A port of the DSO-1000D.

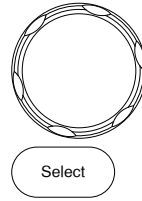


5. Press the *Utility* key then the *File Utilities* soft-key.



6. Use the *Variable* knob and *Select* key to navigate to the DVM\_1KB.gz file on the USB drive.

VARIABLE



7. Press the *Select* key to start the installation.
8. The installation will complete in a few seconds. When finished a pop-up message will appear asking you to restart the DSO-1000D.
9. Restart the DSO-1000D.

## Uninstalling Optional Apps

**Background** Any optional apps that were installed can be uninstalled from the APP menu. Pre-installed apps, such as the Go-NoGo app cannot be uninstalled.

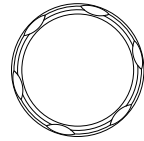
### Steps

1. Press the *APP* key.

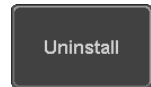


2. Highlight the app that you want to uninstall with the *Variable* knob.

**VARIABLE**



3. Press *Uninstall* twice from the side menu to uninstall the selected app.



x2

# Running Applications

**Background**      The APP function can host a number of different applications, some of which as pre-installed and some of which are installed as optional extras.

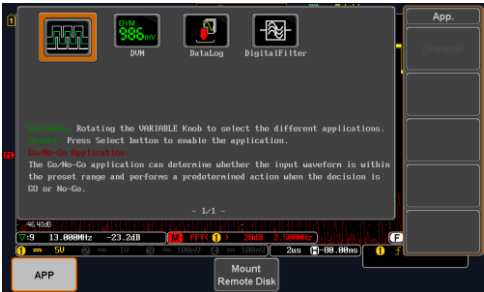
**Panel Operation**    1. Press the *APP* key.



2. Press *APP* from the bottom menu.



3. Scroll through each application using the *Variable* knob.



4. Select an application by pressing the *Select* key *twice*.





# USING THE DVM

## Background

The DVM app is a digital voltage meter or digital current meter readout that floats on the top left-hand side of the screen. However, please note that if the cursors are turned on, the DVM readout will be replaced by the cursor readout.

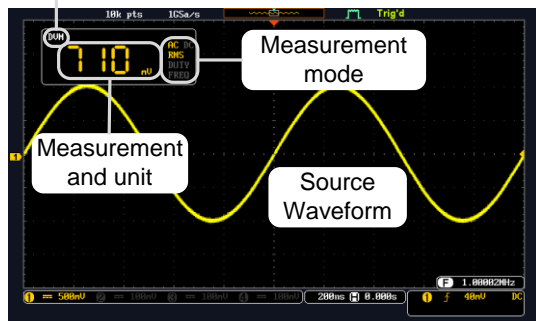
The DVM app allows you to measure the AC RMS, DC, DC RMS, Duty and frequency of an input signal. This software is especially useful for those measurement applications that require both a DSO and a basic DVM to be used at the same time.

### Basic Features:

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

## Example

### DVM function indicator



- Panel Operation
1. Choose the DVM application from the APP menu. See page 6.



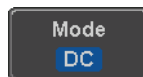
- Set Source
2. Press *Source* and select the source channel for the DVM. The probe type setting (voltage or current) determines whether the function acts as a digital volt meter or as a digital current meter for the selected source.



Source      CH1 ~ CH4

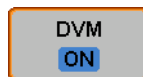
- Mode
- The Mode setting determines the measurement mode for the meter.

3. Press Mode and select the mode.



Mode      AC RMS, DC, DC RMS, Duty,  
Frequency

- Turn On/Off
1. Press *DVM* and toggle DVM on.



The DVM app will remain running in the background even if other functions are turned on.